



INVITATION TO BID NUMBER SEF-1504

RETURN THIS BID TO THE ISSUING OFFICE AT:

Department of Transportation and Public Facilities
HQ State Equipment Fleet
2200 E. 42nd Avenue
Anchorage, AK 99507

THIS IS NOT AN ORDER

ITB TITLE: AIP 8CY 6X4 Dump Truck

DATE ISSUED: 10/14/09

BID OPENING: 11/4/2009 @ 2:30 PM

MANDATORY WORKSHOP: NONE THIS BID.

CONTRACTING OFFICER: Lynda Simmons

SIGNATURE:

E-MAIL: lynda.simmons@alaska.gov

PHONE: (907) 269-0788

SEALED BIDS MUST BE SUBMITTED TO THE STATE EQUIPMENT FLEET PRIOR TO BID OPENING AT WHICH THEY WILL BE PUBLICLY OPENED.

IMPORTANT NOTICE: If you received this solicitation from the State's "Online Public Notice" web site, you must register with the Procurement Officer listed on this document to receive subsequent amendments. Failure to contact the Procurement Officer may result in the rejection of your offer.

BIDDER'S NOTICE: By signature on this form, the bidder certifies that:

- (1) the bidder has a valid Alaska business license, submits a bid under the name as appearing on the person's current Alaska business license and has written the license number below or has submitted one of the following forms of evidence of an Alaska business license with the bid:
 - a canceled check for the business license fee;
 - a copy of the business license application with a receipt date stamp from the State's business license office;
 - a receipt from the State's business license office for the license fee;
 - a copy of the bidder's valid business license;
 - a sworn notarized affidavit that the bidder has applied and paid for a business license;
- (2) the price(s) submitted was arrived at independently and without collusion and that the bidder is complying with:
 - the laws of the State of Alaska;
 - the applicable portion of the Federal Civil Rights Act of 1964;
 - the Equal Employment Opportunity Act and the regulations issued there under by the State and Federal Government;
 - all terms and conditions set out in this Invitation to Bid (ITB).

If a bidder fails to comply with (1) at the time designated in the ITB for opening the State will reject the bid. If a bidder fails to comply with (2) of this paragraph, the State may reject the bid, terminate the contract, or consider the contractor in default. Bids must be submitted under the name as appearing on the person's current Alaska business license in order to be considered responsive.

If a contract award is made by the State of Alaska, the undersigned offers and agrees to furnish materials, equipment and services in compliance with all terms and conditions specified in ITB/Contract. Submittal of this document with authorized signature constitutes full understanding and a promise to comply with all specifications, terms and conditions of ITB/Contract.

TO BE COMPLETED BY BIDDER:

COMPANY SUBMITTING BID

ADDRESS

ALASKA BUSINESS LICENSE NO:

AUTHORIZED SIGNATURE

CITY, STATE, ZIP

DOES YOUR BUSINESS QUALIFY
FOR THE ALASKA BIDDER'S
PREFERENCE?

PRINTED NAME

PHONE/FAX

[] YES [] NO

DATE

E-MAIL ADDRESS

SECTION I
SPECIAL TERMS AND CONDITIONS

NOTE: This section will be used for Terms and Conditions that are "special" and/or unique to a particular ITB. The paragraphs in this section may change from bid to bid. Accordingly, bidders must review this section to insure compliance.

1.0 CONTRACT INTENT: This invitation to bid (ITB) is intended to result in the purchase of:

- 1.1 Intent: Airport Improvement Project (AIP) 8CY 6x4 DUMP TRUCK (as per included specifications).
- 1.2 Quantity: ONE (1) each
- 1.3 Location of Use: MCGRATH AIRPORT, MCGRATH, AK
- 1.4 Warranty location: ANCHORAGE
- 1.5 Dealer warranty locations, at a minimum: ANCHORAGE
- 1.6 In addition to the State of Alaska requirements, the Municipality of Anchorage and other Alaska political subdivisions may cooperatively purchase from the resulting contract. Refer to Section III – Special Terms and Conditions, "COOPERATIVE PURCHASING". SUBJECT TO AVAILABILITY.
 - 1.6.1 At no time may the contractor change the terms and conditions, alter the price to another entity, which differs from the contractual price, nor charge undisclosed administrative fees to allow cooperative purchasing.

2.0 DELIVERY:

- 2.1 **Pre-delivery service:** Prior to delivery, each vehicle, piece of equipment or attachment shall be serviced and inspected by the dealer or his agent. A certification of this inspection must include the following (as applicable to the type of equipment):
 - 2.1.1 Dealer and vehicle identification.
 - 2.1.2 Check-off of service and inspection performed including a list of all fluids including type weight and specification that are in the equipment as delivered for all fluid compartments.
 - 2.1.3 The vehicle's crankcase, differential and transmission, and other fluid compartments shall be filled to the manufacturer's recommended capacity.
 - 2.1.4 Fuel tank shall be filled to at least register a minimum ¼ full on the fuel gauge, unless restricted by the commercial carrier, when the vehicle arrives at the delivery location.
 - 2.1.5 The vehicle shall be clean and free from defects when delivered and should be ready for immediate and continued use upon delivery.
 - 2.1.6 Units delivered in an incomplete state, or which have deficiencies per the specification, are subject to the damage charges as noted in paragraph 4.0 below.
- 2.2 **Delivery Receipt:**
 - 2.2.1 A delivery receipt will be required. The receipt must be filled out by the vendor, and acknowledged by state receiving personnel by signature and date of actual receipt of equipment. One copy of this delivery receipt is to be given to the state-receiving agency. The original shall accompany the vendor's invoice to support and properly identify the vehicle delivered.
 - 2.2.2 Vendors are cautioned and advised that such delivery forms or other receiving type documents will not in any way be construed to mean the state has formally and fully accepted unit(s) referenced thereon as complete and meeting every specification set forth. Only the Contracting Officer or designee may sign warranty documentation.

3.0 LINE SHEETS/BILL OF MATERIALS:

- 3.1 It is required within 30 days after delivery that the successful bidder provide a comprehensive listing of all components used to assemble the unit.
- 3.2 This includes any components installed by the manufacturer or any subcontractor or the successful bidder.

- 3.3 Information will include at a minimum, when available, make, model serial number on items such as engines, transmissions, axles, tires, bodies, etc. The listings will be specific to each piece of equipment and will be provided on an individual CD for each unit delivered.
- 3.4 A minimum of two (2) CD's per unit are to be provided and marked with the make, model, and last main numbers of the units serial number or State PO number.

4.0 F.O.B. POINT:

- 4.1 The F.O.B. point is as listed in Section IV, Bid Price Schedule. Ownership of and title will remain with the contractor until delivery is complete to final destination and accepted by the State.

5.0 DAMAGES FOR LATE DELIVERY AND NON-CONFORMING GOODS:

- 5.1 Time is of the essence in this contract. The bidder is expected to deliver goods that conform in all material respects to the contract specifications on or before the date provided therein, as may be amended by written agreement of the parties.
- 5.2 In the event that the equipment is delivered late or does not conform to the contract specifications, the State shall be entitled to offset against the Contract Price, as liquidated damages and not as a penalty, an amount equal to the cost of renting like equipment, multiplied by the number of calendar days elapsing between the delivery date provided in the bid schedule and the delivery date to the State. In the case of a truck of this class, that daily rental fee is determined to be **\$190.00**. The number of days for which liquidated damages shall apply shall include, in the case of non-conforming goods, the time reasonably necessary for the State to perform inspection.
- 5.3 These liquidated damages represent a reasonable estimate of amounts necessary to compensate the State for loss of use of the goods during the period in which the goods would have been available to the State if conforming goods had been timely delivered.

6.0 WARRANTY:

- 6.1 **Standard Warranty Package:** Unless otherwise stipulated by this ITB, the successful bidder will provide a **five year (60-month)** two-part warranty.
 - 6.1.1 **PART ONE:**
 - 6.1.1.1 Full (100%) Parts and Labor Warranty Coverage components for the first 12-months (one-year), at the assigned location, from the date the unit is placed in service.
 - 6.1.1.2 Corrosion Warranty: Twelve (12) year warranty for corrosion inside the cab leading to premature wear of the cab floor. The State is responsible to take every precaution to insure that the units are properly cleaned and chemicals removed during preventative maintenance.
 - 6.1.1.3 Full (100%) Warranty Coverage includes all cost of labor, parts, freight, transportation, per diem, travel, lubricants, miscellaneous cost, etc., to place the unit in like-new condition.
 - 6.1.2 **PART TWO:**
 - 6.1.2.1 Additional Warranty Coverage for the succeeding 48-months (year's two , three, four and five) to be 100% parts only (or component exchange) for all major power and drive train components, including freight, to place the unit back into good operating condition, from the date the unit is placed in service.
 - 6.1.2.2 Major power and drive train components include the engine, transmission, torque converter, differential(s), planetary drives, main hydraulic pump, and any other major components recognized in the equipment industry as belonging to the power or drive train.
 - 6.1.3 Should the manufacturer's standard warranty exceed the minimum State warranty requirements, the manufacturer's warranty will run in conjunction with and enhance the state's warranty, then continue for the remainder of its term.
 - 6.1.4 If the state receives from any manufacturer or supplier additional or extended warranty on the whole or any component of the unit, in the form of time and/or mileage, including any pro rata

arrangements, or the manufacturer generally extends to fleet customers a greater or extended warranty coverage, the state shall receive corresponding warranty benefits.

6.2 General Warranty Requirements for all Equipment:

6.2.1 Warranty Exceptions:

6.2.1.1 For clarification, warranty does not apply to normal wear and tear or maintenance items, accident damages, misuse of equipment or failure to operate or maintain equipment as prescribed by vendor/manufacturer.

6.2.2 Warranty on Attachments: Same as Standard Warranty Package.

6.2.3 In-Service Date:

6.2.3.1 Warranty on vehicles not placed in service immediately upon receipt because of time lag to construct body components and/or installation of special equipment, or due to seasonal usage or other delay, shall be warranted from the date the vehicle is placed in service. The receiving agency shall notify the vendor/manufacturer in writing of the actual "in service" date. Notification of the requirement for delayed warranty will be provided on delivery orders whenever possible.

6.2.4 Authorized Warranty Dealer (Contractor) and Subcontractor: For the purpose of this bid, the contractor must meet the following applicable requirements:

6.2.4.1 Contractor (bidder) must:

6.2.4.1.1 possess a current State of Alaska Motor Vehicle Dealer License pursuant to AS 08.66.010 through AS 08.66.090, when offering motor vehicles, trailers or semi-trailers, and;

6.2.4.1.2 be a manufacturer(s) authorized warranty service dealer for each unit, and;

6.2.4.1.3 have the capability of providing warranty servicing and repair work within the State of Alaska, with authorized warranty repair facilities in Anchorage and Fairbanks at a minimum.

6.2.4.2 Contractor, if appropriate, shall submit the name, address, and Alaska business license of any subcontractor who will provide the warranty servicing and repair work. The contractor must also provide contractual documentation or agreements with the subcontractor insuring the state that the subcontractor will provide complete contract performance on behalf of the contractor as set forth in this ITB and verification that the work provided will maintain manufacturer's warranty requirements.

6.2.4.2.1 Approval of all subcontractors must take place prior to the bid opening.

6.2.4.2.2 The use of a subcontractor does not exclude the provisions as noted in paragraphs 3.3.4.1.1 through 3.3.4.1.3 as requirements to the contractor.

6.2.5 Warranty Claims:

6.2.5.1 Warranty will be provided at the unit's assigned (in-service) location as shown in this ITB, Section IV - Bid Price Schedule. Because of the remote location of some equipment it is not always practical to deliver equipment to authorized warranty repair facilities. In these cases, the vendor may perform warranty work at the state's location or, the State of Alaska, at its discretion, reserves the right to perform the warranty work and be reimbursed by the vendor.

6.2.5.2 The State of Alaska has established a warranty procedure whereby the vendor is to be notified via letter, telex, fax, telegram, etc. that warranty work needs to be performed. If time is of the essence, a telephone call confirmed by one of the above written procedures may be utilized. The vendor must notify the state immediately that it will begin to perform the warranty work at the equipment location within 48 hours from receipt of written notification. The State may, at its discretion, proceed to make warranty repairs with its own work force in the case of emergency situation or to preclude excessive downtime (greater than 48 hours).

- 6.2.5.3 Failure to notify the State, that the vendor intends to begin to perform warranty work promptly under this paragraph, by the end of the business day following the state's notification that work is required to be performed, is considered a contractual breach.
- 6.2.6 The vendor will be invoiced for required warranty work performed by the state. The shop rate to be charged for warranty work performed by the state will be **\$88.00** per hour. Labor hours to be charged will be in accordance with appropriate flat rate manuals. If flat rate manuals do not cover the labor operation, actual repair time will be used. Warranty work performed by state shop personnel at locations where no shop personnel are permanently stationed may be subject to travel expenses incurred involving those warranty repairs.
- 6.2.7 **Factory Recall:**
- 6.2.7.1 Nationwide factory recall or product update programs are the responsibility of the vendor and/or manufacturer. The State will attempt to bring affected equipment to an authorized repair facility. However, because of the remoteness of some equipment this is not always practicable or economical. In such cases, factory recall and modification work will be handled the same as warranty work. Factory recall notices sent to the state should, in addition to serial number, include model, year, and dealer from who purchased.
- 6.2.8 **Hazardous Material:**
- 6.2.8.1 Due to concerns about liability resulting from hazardous materials being left at the work site on State of Alaska property, no vendors will be allowed to use the State rural airport facilities to perform warranty work unless they agree and sign a letter of intent stating that all waste products including oils, coolant and garbage will be removed from the work site. Vendors should note that in some village locations other suitable facilities might be available for rent from local residents or village authority.

7.0 PUBLICATIONS:

- 7.1 Paper publications are to be received by the State of Alaska no later than 10 days after receipt of the unit. Custom manuals may be delivered no later than 90 days after receipt of the unit. Delivery will not be considered complete until the publications for each unit have been received by the State of Alaska. Note: Publications, when required, will be ordered on the same Purchase Order as the unit itself.
- 7.1.1 All paper manuals are to be pre-assembled in factory binders prior to delivery.
- 7.2 **Service Manuals:**
- 7.2.1 Complete set(s) to include applicable information covering prime unit and attachments:
- 7.2.2 Body, chassis, and electrical
- 7.2.3 Engine, transmission, and differential(s) (service and rebuild)
- 7.2.4 Electrical and vacuum troubleshooting
- 7.2.5 Wiring diagrams
- 7.2.6 Service specifications
- 7.2.7 Engine/emission diagnosis
- 7.3 **Parts Manuals:**
- 7.3.1 Complete set(s) including all updates. If updates are not provided during the warranty period, the State may order them from the manufacturer and bill the contractor for the full cost, including shipping.
- 7.3.2 Parts manuals are to be customized by serial number.
- 7.4 **Operator's Manuals:** Complete set(s) to include prime unit and attachments.
- 7.5 **Quantities:** As per Section IV – Bid Price Schedule.
- 7.6 **Manuals:** To be delivered to, and receipt signed by person(s) as noted on the Purchase Order.
- 7.7 **Service Bulletins, Etc.:** The successful bidder must provide appropriate service bulletins, technical support bulletins, service letters, product support bulletins, and/or any other information type notifications

that are sent out to the vendor or used by the manufacturer in the maintenance and report of the vehicle, equipment or attachments being provided. The intent of this clause is that the State of Alaska be provided notification of any and all changes or improvements that may affect the maintenance, reliability, longevity, and safety of our equipment. This information will be provided as soon as possible to person(s) as noted on the Purchase Order.

- 8.0 STATEMENT OF ORIGIN:** The bidder will be required to furnish a Manufacturer's Statement of Origin for Automotive or Non-Automotive rolling stock for each unit. All such documents shall be forwarded to:

DOT&PF, HQ State Equipment Fleet
2200 E. 42nd Avenue Room #311
Anchorage, Alaska 99508

- 9.0 WEIGHT VERIFICATION SLIPS:** If required in the Bid Price Schedule, a weight scale ticket of the completed unit will be included with the Statement of Origin.

10.0 INSPECTIONS:

- 10.1 The State's inspection of all materials and equipment upon delivery is for the sole purpose of identification. Such inspection shall not be construed as final or as acceptance of the materials or equipment if materials or equipment do not conform to Contract requirements. If there are any apparent defects in the materials or equipment at the time of delivery, the State will promptly notify the Contractor thereof. Without limiting any other rights of the State, The State at its option, may require the Contractor to:

10.1.1 repair or replace at contractor's expense, any or all of the damaged goods,

10.1.2 refund the price of any or all of the damaged goods, or

10.1.3 accept the return of any or all of the damaged goods.

- 10.2 Costs of remedying all defects, indirect and consequential costs of correcting same, and/or removing or replacing any or all of the defective materials or equipment will be charged against the bidder.

11.0 PRICE:

- 11.1 **Price Guarantee:** The contractor is responsible to maintain prices under the contract firm for 90 days after bid opening. All price increases or decreases must remain firm for the following 90 days.

- 11.2 **NO RETROACTIVE PRICE INCREASES WILL BE ACCEPTED.**

- 12.0 MANUFACTURER'S REBATE (INCENTIVES):** In any circumstance during or prior to completion of the contract, whereupon the State of Alaska becomes eligible to receive a rebate for any vehicle purchased under this contract, it shall be the BIDDER'S responsibility to inform the Contracting Officer in writing and to advise the procedures for obtaining such rebates.

13.0 REPLACEMENT PARTS:

- 13.1 The State of Alaska shall expect the dealer or manufacturer to provide replacement wear parts at their authorized warranty facilities for the entire warranty period within seven (7) days of order. All other parts must be available within ten (10) working days.

- 13.2 Back order procedures: Back orders are acceptable; however, the ordering shop shall be appraised at time of original orders as to the expected delay in delivery.

- 13.3 Warranty: All products supplied by the contractor shall be warranted against defects in materials and workmanship for a minimum of 90 days, commencing at the time of installation as long as the installation is within 12 months of purchase. The cost of any defective product and the labor required to replace the defective product shall be the obligation of the contractor.

13.3.1 If the manufacturer's warranty exceeds the stated warranty then manufacturer's warranty supersedes.

13.3.2 Parts Return: Within 12 months of purchase, the State is to be allowed to return new, parts with full refund, less shipping charges.

13.3.3 Invoicing: Full description of item is required on all invoices, packing lists and billings.

**SECTION II
STANDARD TERMS AND CONDITIONS**

- 1.0 INVITATION TO BID (ITB) REVIEW:** Bidders shall carefully review this ITB for defects and questionable or objectionable material. Bidders' comments concerning defects and questionable or objectionable material in the ITB must be made in writing and received by the purchasing authority at least ten (10) days before the bid opening date. This will allow time for an amendment to be issued if one is required. It will also help prevent the opening of a defective bid, upon which award cannot be made, and the resultant exposure of bidders' prices. Bidders' original comments should be sent to the purchasing authority listed on the front of this ITB.
- 2.0 BID FORMS:** Bidders shall use this bid and attached forms when submitting bids. A photocopied bid may be submitted.
- 3.0 SUBMITTING BIDS:** Envelopes containing bids must be sealed, marked, and addressed as shown in the example below. Do not put the ITB number and opening date on the envelope of a request for bid information. Envelopes with ITB numbers annotated on the outside will not be opened until the scheduled bid opening.

| | |
|--|--------------|
| Bidder's Return Address | STAMP |
| Department of Transportation & Public Facilities HQ State Equipment Fleet 2200 E. 42nd Avenue, Room #311 Anchorage, AK 99508 | |
| Bid No.: SEF- _____ Opening Date: _____ | |

- 4.0 FORMAL WORKSHOP: (Attendance is Mandatory IF a workshop is scheduled)**
- 4.1 The Formal Workshop (Pre-Bid) is to discuss with prospective bidders the "draft" Invitation to Bid (ITB). The formal workshop is the only opportunity for prospective bidders, manufacturers and other interested parties, in a conference setting, to discuss Standard Terms and Conditions, Special Terms and Conditions, Specifications, and to provide clarification as needed for this ITB. **All bidders (a representative from the bidding company) must attend in person or by teleconference in order to bid.**
- 4.2 Formal workshops are for information only. Any statements made at formal workshops will not be official until verified in the "final" ITB. Participation by teleconference may be possible by making arrangements with the SEF Contracting Office in advance.
- 5.0 TIMELINESS OF BID:** Sealed bids must be received and time-stamped by the Procurement Office prior to the time set for receipt of bids. Bids received after bid-closing time will not be considered. Bidders must ensure that their bid and any amendments requiring signature are delivered prior to the scheduled bid opening time. **LATE BIDS WILL NOT BE ACCEPTED.**
- 6.0 FILING A PROTEST:** A bidder may protest the award of a contract or the proposed award of a contract for supplies, services, or professional services. The protest must be filed in writing and include the following information: (1) the name, address, and telephone number of the protester; (2) the signature of the protester or the protester's representative; (3) identification of the contracting agency and the solicitation or contract at issue; (4) a detailed statement of the legal and factual grounds of the protest, including copies of relevant documents; and (5) the form of relief requested. Protests will be treated in accordance with Alaska Statutes (AS)36.30.560-36.30.610.
- 7.0 AUTHORITY:** This ITB is written in accordance with AS 36.30 and 2 AAC 12.
- 8.0 COMPLIANCE:** In the performance of a contract that results from this ITB, the contractor must comply with all applicable federal, state, and borough regulations, codes, and laws; and be liable for all required insurance, licenses, permits and bonds; and pay all applicable federal, state, and borough taxes.
- 9.0 SUITABLE MATERIALS, ETC.:** Unless otherwise specified, all materials, supplies or equipment offered by a bidder shall be new, unused, and of the latest edition, version, model or crop and of recent manufacture.

- 10.0 SPECIFICATIONS:** Unless otherwise specified in the ITB, product brand names or model numbers specified in this ITB are examples of the type and quality of product required, and is not statements of preference. If the specifications describing an item conflict with a brand name or model number that describes the item, the specifications govern. Reference to brand name or number does not preclude an offer of a comparable or better product, if full specifications and descriptive literature are provided for the product. Failure to provide such specifications and descriptive literature may be cause for rejection of the offer.
- 11.0 FIRM OFFER:** For the purpose of award, offers made in accordance with this ITB must be good and firm for a period of ninety (90) days from the date of bid opening.
- 12.0 EXTENSION OF PRICES:** In case of error in the extension of prices in the bid, the unit prices will govern; in a lot bid, the lot prices will govern.
- 13.0 BID PREPARATION COSTS:** The State is not liable for any costs incurred by the bidder in bid preparation.
- 14.0 CONSOLIDATION OF AWARDS:** Due to high administrative costs associated with processing of purchase orders, a single low bid of \$50 or less may, at the discretion of the State, be awarded to the next low bidder receiving other awards for consolidation purposes. This paragraph is not subject to the protest terms enumerated in "INSTRUCTION TO BIDDERS", "FILING A PROTEST" above.
- 15.0 CONTRACT FUNDING:** Bidders are advised that funds are available for the initial purchase and/or the first term of the contract. Payment and performance obligations for succeeding purchases and/or additional terms of the contract are subject to the availability and appropriation of funds.
- 16.0 CONFLICT OF INTEREST:** An officer or employee of the State of Alaska may not seek to acquire, be a party to, or possess a financial interest in, this contract if (1) the officer or employee is an employee of the administrative unit that supervises the award of this contract; or (2) the officer or employee has the power to take or withhold official action so as to affect the award or execution of the contract.
- 17.0 ASSIGNMENT(S):** Assignment of rights, duties, or payments under a contract resulting from this ITB is not permitted unless authorized in writing by the State of Alaska, Department of Administration, Division of General Services. Bids that are conditioned upon the State's approval of an assignment will be rejected as nonresponsive.
- 18.0 SUBCONTRACTOR(S):** Within five (5) working days of notice, the apparent low bidder must submit a list of the subcontractors that will be used in the performance of the contract. The list must include the name of each subcontractor and the location of the place of business for each subcontractor and evidence of each subcontractor's valid Alaska business license. Subcontractors can only be changed per AS 36.30.115 (b).
- 19.0 FORCE MAJEURE:** (Impossibility to perform) The contractor is not liable for the consequences of any failure to perform, or default in performing, any of its obligations under this Agreement, if that failure or default is caused by any unforeseeable Force Majeure, beyond the control of, and without the fault or negligence of, the contractor. For the purposes of this Agreement, Force Majeure will mean war (whether declared or not); revolution; invasion; insurrection; riot; civil commotion; sabotage; military or usurped power; lightning; explosion; fire; storm; drought; flood; earthquake; epidemic; quarantine; strikes; acts or restraints of governmental authorities affecting the project or directly or indirectly prohibiting or restricting the furnishing or use of materials or labor required; inability to secure materials, machinery, equipment or labor because of priority, allocation or other regulations of any governmental authorities.
- 20.0 LATE BIDS:** Late bids are bids received after the time and date set for receipt of the bids. Late bids will not be accepted.
- 21.0 CONTRACT EXTENSION:** Unless otherwise provided in this ITB, the State and the successful bidder/contractor agree: (1) that any holding over of the contract excluding any exercised renewal options, will be considered as a month-to-month extension, and all other terms and conditions shall remain in full force and effect and (2) to provide written notice to the other party of the intent to cancel such month-to-month extension at least thirty (30) days before the desired date of cancellation.
- 22.0 DEFAULT:** In case of default by the contractor, for any reason whatsoever, the State of Alaska may procure the goods or services from another source and hold the contractor responsible for any resulting excess cost and may seek other remedies under law or equity.
- 23.0 DISPUTES:** Any dispute arising out of this agreement shall be resolved under the laws of Alaska. Any appeal of an administrative order or any original action to enforce any provision of this agreement or to obtain any relief from or remedy in connection with this agreement may be brought only in the superior court for the State of Alaska.

- 24.0 CONSUMER ELECTRICAL PRODUCT:** AS 45.45.910 requires that "...a person may not sell, offer to sell, or otherwise transfer in the course of the person's business a consumer electrical product that is manufactured after August 14, 1990, unless the product is clearly marked as being listed by an approved third party certification program." Electrical consumer products manufactured before August 14, 1990, must either be clearly marked as being third party certified or be marked with a warning label that complies with AS 45.45.910(e). Even exempted electrical products must be marked with the warning label. By signature on this bid the bidder certifies that the product offered is in compliance with the law. A list of approved third party certifiers, warning labels and additional information is available from: Department of Labor and Workforce Development, Labor Standards & Safety Division, Mechanical Inspection Section, P.O. Box 107020, Anchorage, Alaska 99510-7020, (907)269-4925.
- 25.0 SEVERABILITY:** If any provision of the contract is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions will not be affected; and, the rights and obligations of the parties will be construed and enforced as if the contract did not contain the particular provision held to be invalid.
- 26.0 ORDER DOCUMENTS:** Except as specifically allowed under this ITB, an ordering agency will not sign any vendor contract. The State is not bound by a vendor contract signed by a person who is not specifically authorized to sign for the State under this ITB. The State of Alaska Purchase Order, Contract Award and Delivery Order are the only order documents that may be used to place orders against the contract(s) resulting from this ITB.
- 27.0 BILLING INSTRUCTIONS:** Invoices must be billed to the ordering agency's address shown on the individual Purchase Order, Contract Award or Delivery Order, not to the Division of General Services. The ordering agency will make payment after it receives the merchandise or service and the invoice. Questions concerning payment must be addressed to the ordering agency.
- 28.0 CONTINUING OBLIGATION OF CONTRACTOR:** Notwithstanding the expiration date of a contract resulting from this ITB, the contractor is obligated to fulfill its responsibilities until warranty, guarantee, maintenance and parts availability requirements have completely expired.
- 29.0 ALASKA BUSINESS LICENSE AND OTHER REQUIRED LICENSES:** At the time the bids are opened, all bidders must hold a valid Alaska business license and any necessary applicable professional licenses required by Alaska Statute. Bids must be submitted under the name as appearing on the person's current Alaska business license in order to be considered responsive. Bidders should contact the Department of Commerce, Community and Economic Development, Division of Corporations, Business, and Professional Licensing, P. O. Box 110806, Juneau, Alaska 99811-0806, for information on these licenses. Bidders must submit evidence of a valid Alaska business license with the bid.

You are not required to hold a valid State of Alaska business license at the time bids are opened if you possess one of the following licenses and are offering services or supplies under that specific line of business:

- fisheries business licenses issued by Alaska Department of Revenue or Alaska Department of Fish & Game,
- liquor licenses issued by Alaska Department of Revenue for alcohol sales only,
- insurance licenses issued by Alaska Department of Commerce, Community and Economic Development, Division of Insurance, or
- mining licenses issued by Alaska Department of Revenue.

- 29.0 ALASKA VENDORS AND PRODUCT PREFERENCES:** Are not applicable for federally funded Airport Improvement Project (AIP) bids.

30.0 METHOD OF AWARD:

- 30.1 DOT/PF is required by law to award "to the lowest responsible and responsive bidder whose bid conforms in all MATERIAL respects to the requirements and criteria set out in the invitation to bid." AS 36.30.170.
- 30.2 All specifications in this ITB are important and bidders should carefully address each item. Deviation from a specification MAY result in rejection of a bid at the discretion of the Contracting Officer if the deviation is material. A material deviation is one that is significantly different from an essential aspect of a specification.
- 30.3 The Contracting Officer may be justified in accepting a non-material deviation - it will be determined upon the facts, circumstances, and the proposal in the bid. If a bid deviation has a negligible effect on price, quality, performance, delivery or contract conditions, it is not material and may be waived or corrected by the Contracting Officer. The State reserves the right to waive minor informalities or technical defects, which are not material, when such waiver is in the best interest of the State.

- 30.4 Nothing in this section shall be construed as depriving the State of its discretion in the matter of determining the lowest responsible bidder.
- 30.5 A Notice of Intent to Award (ITA) will be issued for all solicitations in accordance with regulations. The notice of intent to award does not constitute a formal award of a contract. Formal award is achieved through execution of the "Offer and Contract Award" section of the Invitation to Bid.

31.0 BID FORMAT:

- 31.1 Bid submitted must contain, as a minimum:
- 31.1.1 COVER PAGE
 - 31.1.2 BID PRICE SCHEDULE.
 - 31.1.3 ASTERISKED (*) ITEM PAGES ONLY (AND/OR) LETTER OF CLARIFICATION ADDRESSING ASTERISKED (*) ITEMS.
 - 31.1.4 All pertinent amendments.
- 31.2 Failure to return all of the pages listed above will cause your bid to be rejected.
- 31.3 Bids must conform to the requirements of the Invitation to Bid or Request for Proposal. All necessary attachments (bid bonds, references, descriptive literature, etc.) must be submitted with the bid and in the required format. Failure to comply with all requirements shall result in a non-responsive bid.
- 31.4 Faxed or e-mail transmitted bids ARE NOT ACCEPTED.

32.0 SIGNATURE ON BID: AN OFFICIAL OF THE BIDDING ORGANIZATION authorized to bind the bidder to its provisions MUST SIGN THE BID IN INK. Signature certifies that the bidder has read and fully understands and agrees to all bid specifications, terms and conditions.

33.0 PRODUCT LITERATURE:

- 33.1 **ANNOTATED LITERATURE:** Bidders must annotate their product literature to identify for the State the location of the supporting information regarding each product specification set out in this ITB. A bidder's failure to comply with this clause, within the time set by the State, will cause the State to consider the offer non-responsive and reject the bid.
- 33.2 Product brochures, descriptive literature and other supporting documentation may be required in some solicitations. Descriptive literature is for the purpose of providing a reference to the product offered. While it is not practicable to require documentation to support every single item of a specification, it is sometimes necessary to require the bidder to provide product literature that will help the Contracting officer to determine the bidder's compliance with important specifications.
- 33.3 Requirements for product literature will vary from bid to bid. Certain specification items may be marked with an asterisk (*) indicating that descriptive literature or supporting documentation (such as a letter of clarification) will be required.
- 33.4 When product literature is required by the ITB, please provide a minimum of one (1) complete set to aid in bid review and evaluation.
- 33.5 Failure to provide product literature or brochures when required WILL result in your bid being deemed non-responsive.
- 33.6 A bidder's signature on the contract offer and award is taken as a promise to comply with the ITB specifications. In case of a difference between the literature and the specifications, the specifications will govern.
- 33.7 The State does not honor disclaimer statements often evident in manufacturer's published specification sheets or brochures. Such disclaimers will not release the successful bidder from providing the specified item, at the time of acceptance by the State.

34.0 CLARIFICATION OF OFFER:

- 34.1 A letter of clarification is required to explain any deviations from terms, conditions, or specifications of this ITB. Offers exceeding ITB specifications are regarded as deviations and should be clarified.
- 34.2 In order to prevent technical errors, following each asterisked is space that shall be used to address all of the asterisked items. It is **mandatory** that a letter of clarification or the space behind the asterisked items be used to supply the required information.
- 34.3 When using a letter of clarification, or the space provided within the ITB, to address an asterisked (*) item, the statement must indicate specifically what is being provided. Do not include statements such as "Complies to Spec", or "Meets or Exceeds Specifications". This will be considered a non-responsive response.
- 34.4 Letters of Clarification are to be on company (Bidder's) letterhead and be signed. The only information in the Letters of Clarification should be the explanation(s) of deviation(s) and/or responses to asterisked (*) items. Asterisked (*) item explanations should refer to that particular specification item number.
- 34.5 Letters of disclosure and clarification must be made part of the sealed bid.

35.0 PRODUCT IDENTIFICATION: Bidders must clearly identify all products bid. Brand name and model or number must be shown for the prime unit as well as attachments where applicable. The State reserves the right to reject any bid when the product information submitted with the bid is incomplete and/or is not easily ascertainable from the bid documents or through independent verification.

36.0 PRODUCT EQUIVALENT SUBSTITUTION: Bidders may submit bids for substantially equivalent products unless the Invitation to Bid provides that a specific brand is necessary because of compatibility requirements. In those instances where the ITB specifies "a name brand or State approved equivalent", bidders must request approval of a product equivalent substitution NO LATER THAN the formal workshop meeting. A written response will be provided by the Contracting Officer. Any requests for product equivalent substitution after the Formal Workshop Meeting, in all likelihood, will not be considered.

37.0 BRAND AND MODEL OFFERED: Unless otherwise specified, when brand names and model numbers are used to specify the type and quality of the goods desired, bidders must clearly indicate the brand names and model numbers they intend to provide. The bidder's failure to identify the brand and model offered will cause the State to consider the offer non-responsive and reject the bid.

38.0 BID MODIFICATION:

- 38.1 Modifications or erasures made before bid submission should be initialed in ink by the person signing the bid. A bid may be rejected if it contains a material alteration or erasure, which is not initialed by the signer of the bid and the intent of the bidder, is not reasonably ascertainable from the bid as submitted.
- 38.2 Bids, once submitted, may be modified in writing before the time and date set for bid opening. Any modifications shall be prepared on company letterhead, signed by an authorized representative, and state that the new document supersedes or modifies the prior bid. Modification must be submitted in a sealed envelope clearly marked "Bid Modification" and identifying the bid number and closing date and time. Bidders may not modify bids after bid opening time.

39.0 BID WITHDRAWALS: Bids may be withdrawn in writing on company letterhead signed by an authorized representative and received by the Procurement Office prior to bid closing time. Bids may also be withdrawn in person before bid opening time upon presentation of appropriate identification.

40.0 NON-RESPONSIVE BIDS:

- 40.1 Bids will be considered non-responsive and shall be rejected for the following:
 - 40.1.1 Failure to sign the bid.
 - 40.1.2 Failure to return all pages of the bid document and any/all pertinent amendments.
 - 40.1.3 Failure to submit the bid at the place and time required in the solicitation.
 - 40.1.4 Failure to have a valid Alaska Business License at the time of bid opening.
 - 40.1.5 Failure to acknowledge amendments requiring signature.
 - 40.1.6 Failure to provide product literature, brochures, or a letter of clarification, when specifically required by the Invitation to Bid.

40.1.7 Bids which specify "Offered Delivery Time" in excess of "Required Delivery" number of calendar days after the receipt of an order.

41.0 CERTIFICATION OF COMPLIANCE WITH AMERICAN'S WITH DISABILITIES ACT OF 1990:

41.1 By signature of their bid/proposal the bidder/proposer certifies that they comply with the American's with Disabilities Act of 1990 and the regulations issued there under by the federal government.

41.2 Services or activities furnished to the general public on behalf of the State must be fully accessible. This is intended to ensure that agencies are in accordance with 28 CFR Part 35 Section 35.130 and that services, programs or activities furnished to the public through a contract do not subject qualified individuals with a disability to discrimination based on the disability.

42.0 ACCESSORIES: When accessories are supplied, they must be certified to be compatible with the rest of the equipment. Certification will be written evidence satisfactory to the State that the accessories are compatible. The bidder's failure to supply this evidence within the time required by the State will cause the State to consider the bid non-responsive and reject the bid.

43.0 ALTERATIONS: The contractor must obtain the written approval from the contracting officer prior to making any alterations to the specifications contained in this ITB. The State will not pay for alterations that are not approved in advance and in writing by the contracting officer.

44.0 AMENDMENTS: Contract terms shall not be waived, altered, modified, supplemented or amended without prior written approval of the Contracting Officer.

45.0 ASSIGNMENT: A bidder may not assign any portion of a contract unless authorized in advance and in writing by the Contracting Officer.

46.0 AUTHORITY: This solicitation is written in accordance with Alaska statutes AS 36.30 and 2 AAC 12.

47.0 BID PREPARATION COSTS: The State is not responsible for any costs incurred by the bidder in preparation of his bid.

48.0 COMPLIANCE WITH ALL GOVERNMENT REGULATIONS: The bidder must comply with all applicable federal, state, and borough regulations, codes, and laws, and pay all applicable federal, state, and borough taxes, and is liable for all required insurance, licenses, permits, and bonds. Failure to comply with such requirements shall constitute a breach of contract and shall be grounds for contract cancellation. Damages or costs resulting from noncompliance shall be the sole responsibility of the bidder.

49.0 CONFLICT OF INTEREST: A person employed by the State of Alaska may not seek to acquire, be a party to, or possess a financial interest in, this contract if they are an employee of the administrative unit that supervises the award of this contract or they have the power to take or withhold official action to affect the contract.

50.0 DEFAULT: In case of bidder default, the State may procure the goods or services from another source and hold the bidder responsible for any resulting excess costs and may seek other remedies under law or equity. Alaska Statutes and Regulations provide for suspension and disbarment of non-responsive bidders.

51.0 DELIVERY: All deliveries shall be F.O.B. final destination point with all transportation and handling charges paid by bidder. Responsibility and liability for loss or damage shall remain with bidder until final inspection and acceptance when responsibility shall pass to the State except as to latent defects, fraud and bidder's warranty obligations.

52.0 DISCONTINUED ITEMS: In the event an item is discontinued by the manufacturer during the life of the contract, another item may be substituted, provided that the contracting officer makes a written determination that it is equal or better than the discontinued item and provided that it is sold at the same price or less than the discontinued item.

53.0 DISPUTES: Any disputes arising out of this solicitation shall be resolved under the laws of Alaska. An appeal or any original action to enforce any provision of this agreement must be in the superior court for the First Judicial District of Alaska.

54.0 FIRM, UNQUALIFIED AND UNCONDITIONAL OFFER: Bidders must provide enough information with their bid to constitute a definite, firm, unqualified and unconditional offer. To be responsive a bid must constitute a definite, firm, unqualified and unconditional offer to meet all of the material terms of the ITB. Material terms are those, which could affect price, quantity, quality, or delivery. Also included, as material terms are those, which are clearly identified in the ITB and which, for reasons of policy, must be complied with at risk of bid rejection for non-responsiveness.

55.0 FORCE MAJEURE (Impossibility to perform): Neither party to this contract shall be held responsible for delay or default caused by acts of God and/or war, which is beyond that party's reasonable control. The State may terminate this contract upon written notice after determining such delay or default will reasonably prevent successful performance of the contract.

56.0 HUMAN TRAFFICKING:

56.1 By signature on this contract, the offeror certifies that:

56.1.1 the offeror is not established and headquartered or incorporated and headquartered, in a country recognized as Tier 3 in the most recent United States Department of State's Trafficking in Persons Report; or

56.1.2 if the offeror is established and headquartered or incorporated and headquartered, in a country recognized as Tier 3 in the most recent United States Department of State's Trafficking in Persons Report, a certified copy of the offeror's policy against human trafficking must be submitted to the State of Alaska prior to contract award.

56.2 The most recent United States Department of State's Trafficking in Persons Report can be found at the following website: www.state.gov/g/tip/

56.3 Failure to comply with this requirement will cause the State to reject the bid or proposal as non-responsive, or cancel the contract.

56.4 This pertains to goods and services above \$50,000.00.

57.0 INDEMNIFICATION: The Contractor shall indemnify, hold harmless, and defend the contracting agency from and against any claim of, or liability for error, omission or negligent act of the Contractor under this agreement. The Contractor shall not be required to indemnify the contracting agency for a claim of, or liability for, the independent negligence of the contracting agency. If there is a claim of, or liability for, the joint negligent error or omission of the Contractor and the independent negligence of the Contracting agency, the indemnification and hold harmless obligation shall be apportioned on a comparative fault basis. "Contractor" and "Contracting agency", as used within this and the following article, include the employees, agents and other contractors who are directly responsible, respectively, to each. The term "independent negligence" is negligence other than in the Contracting agency's selection, administration, monitoring, or controlling of the Contractor and in approving or accepting the Contractor's work.

58.0 INSPECTIONS: Goods furnished under this contract are subject to inspection and test by the State at times and places determined by the State. If the State finds goods furnished to be incomplete or not in compliance with bid specifications, the State may reject the goods and require bidder to either correct them without charge or deliver them at a reduced price, which is equitable under the circumstances. If bidder is unable or refuses to correct such goods within a time deemed reasonable by the State, the State may cancel the order in whole or in part. Nothing in this paragraph shall adversely affect the State's rights as buyer, including all remedies and rights granted by Alaska statutes.

59.0 INSURANCE:

59.1 Without limiting Contractor's indemnification, it is agreed that Contractor shall purchase at its own expense and maintain in force at all times during the performance of services under this agreement the following policies of insurance. Where specific limits are shown, it is understood that they shall be the minimum acceptable limits. If the Contractor's policy contains higher limits, the state shall be entitled to coverage to the extent of such higher limits. Certificates of Insurance must be furnished to the Contracting Officer prior to beginning work and must provide for a 30-day prior notice of cancellation, nonrenewal or material change of conditions. Failure to furnish satisfactory evidence of insurance or lapse of the policy is a material breach of this contract and shall be grounds for termination of the Contractor's services. All insurance policies shall comply with, and be issued by insurers licensed to transact the business of insurance under AS 21.

59.2 Proof of insurance is required for the following:

59.2.1 Workers' Compensation Insurance: The Contractor shall provide and maintain, for all employees engaged in work under this contract, coverage as required by AS 23.30.045, and; where applicable, any other statutory obligations including but not limited to Federal U.S.L. & H. and Jones Act requirements. The policy must waive subrogation against the State.

- 59.2.2 Commercial General Liability Insurance: covering all business premises and operations used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per occurrence.
- 59.2.3 Commercial Automobile Liability Insurance: covering all vehicles used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per occurrence.
- 59.3 Failure to supply satisfactory proof of insurance within the time required will cause the State to declare the bidder nonresponsive and to reject the bid.
- 60.0 ITEM UPGRADES:** The State reserves the right to accept upgrades to models on the basic contract when the upgrades improve the way the equipment operates or improve the accuracy of the equipment. Such upgraded items must be at the same price as the items in the basic contract.
- 61.0 NEW EQUIPMENT:** Equipment offered in response to this ITB must be new equipment. New equipment means equipment that is currently in production by the manufacturer and is still the latest model, edition or version generally offered. The equipment must be warranted as new by the manufacturer and may not have been used for any purpose, other than display (not demonstration), prior to its sale to the State. The State will not accept remanufactured, used or reconditioned equipment, including used or reconditioned components or parts of. It is the contractor's responsibility to ensure that each piece of equipment delivered to the State complies with this requirement. A contract's failure to comply with this requirement will cause the State to seek remedies under breach of contract.
- 62.0 PAYMENT:** Payment for agreements under \$500,000 for the undisputed purchase of goods or services provided to a State agency will be made within 30 days of the receipt of a proper billing or the delivery of the goods or services to the location(s) specified in the agreement, whichever is later. A late payment is subject to 1.5% interest per month on the unpaid balance. Interest will not be paid if there is a dispute or if there is an agreement, which establishes a lower interest rate or precludes the charging of interest.
- 63.0 PRICE EXTENSION:** In case of error in the extension of prices in the bid, the unit prices will govern.
- 64.0 PRICES:** The bidder shall state prices according to the requirements of this ITB. Prices quoted for commodities or services must be in U.S. funds and include applicable federal duty, brokerage fees, packaging, and transportation cost to the FOB point so that upon transfer of title the commodity or service can be utilized without further cost.
- 65.0 PROTESTS:** A bidder may protest the Intent to Award a contract pursuant to this Invitation to Bid in accordance with provisions in Alaska Statute AS 36.30.560. The protest must be filed in writing within ten (10) days of the notice of Intent to Award, and must include the following information: (1) the name, address, and telephone number of the protester; (2) the signature of the protester or the protester's representative; (3) identification of the contracting agency and the solicitation or contract at issue; (4) a detailed statement of the legal and factual grounds of the protest, including copies of relevant documents; and (5) the form of relief requested. Protests must be filed with: Contracting officer, State Equipment Fleet Purchasing, 2200 East 42nd Ave, Room #311, Anchorage, AK 99508. Protests and any subsequent appeal will be processed per AS 36.30.
- 66.0 QUANTITIES:** The State reserves the right to reduce or increase the quantity of items ordered under any contract resulting from this Invitation to Bid.
- 67.0 REJECTION OF BIDS:** All bids or proposals may be rejected prior to award for the following reasons:
- 67.1 the supplies or services being procured are no longer required;
 - 67.2 ambiguous or otherwise inadequate specifications were part of the solicitation;
 - 67.3 the solicitation did not provide for consideration of all factors of significance to the State;
 - 67.4 prices exceed available money and it would not be appropriate to adjust quantities to accommodate available money;
 - 67.5 all otherwise acceptable bids or proposals received are at unacceptable prices;
 - 67.6 there is reason to believe that the bids or proposals may not have been independently arrived at in open competition, may have been collusive, or may have been submitted in bad faith; or
 - 67.7 the award is not in the best interests of the State.
- 68.0 SEVERABILITY:** If any provision of this contract is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected.

- 69.0 SHIPPING DAMAGE:** The State will not accept or pay for damaged goods. The contractor must file all claims against the carrier(s) for damages incurred to items in transit from the point of origin to the ultimate destination. The State will provide the contractor with written notice when damaged goods are received.
- 70.0 SIGNATURE ON BID: BIDS MUST BE SIGNED IN INK BY AN OFFICIAL OF THE BIDDING ORGANIZATION** authorized to bind the bidder to its provisions. Signature certifies, under penalty of perjury under the laws of the United States, that the price(s) submitted was/were independently arrived at without collusion, and that neither bidder nor bidder's firm, association or corporation of which bidder is a member, has either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid per 2AAC12.800.
- 71.0 STANDARD AND SPECIAL TERMS AND CONDITIONS:** The terms and conditions of this section are standard to State of Alaska, Department of Transportation and Public Facilities, Statewide Equipment Fleet contracts for the purchase of goods. There may also be other special terms and conditions in an Invitation to Bid or Request for Proposal which apply only to this contract. In the event of a conflict between the Standard and Special Terms and Conditions, the Special Terms and Conditions take precedence.
- 72.0 SUCCESSORS IN INTEREST:** This contract shall be binding upon successors and assigns.
- 73.0 SUITABLE MATERIALS:** All materials, supplies or equipment offered by a bidder shall be new, unused, of recent manufacture, and suitable for the manufacturer's intended purpose unless the specifications allow for used, rebuilt or remanufactured equipment.
- 74.0 SUPPORTING INFORMATION:**
- 74.1 The State strongly desires that bidders submit all required technical, specification, and other supporting information with their bid, so that a detailed analysis and determination can be made, by the contracting officer that the product offered meets the ITB specifications and that other requirements of the ITB have been met. However, provided a bid meets the requirements for a definite, firm, unqualified, and unconditional offer, the State reserves the right to request supplemental information from the bidder, after the bids have been opened, to ensure that the products offered completely meet the ITB requirements. The requirement for such supplemental information will be at the reasonable discretion of the State and may include the requirement that a bidder will provide a sample product(s) so that the State can make a first-hand examination and determination.
- 74.2 A bidder's failure to provide this supplemental information or the product sample(s), within the time set by the State, will cause the State to consider the offer non-responsive and reject the bid.
- 75.0 TAXES:** Prices quoted in bids must be exclusive of federal, state, and local taxes. If the bidder believes that certain taxes are payable by the State, the bidder may list such taxes separately, directly below the bid price for the affected item. The State is exempt from Federal Excise Tax because articles purchased are for the exclusive use of the State of Alaska.
- 76.0 USE OF BRAND OR TRADE NAMES:** Brand or trade names used by the State in bid specifications are for the purpose of describing and establishing the standard of quality, performance and characteristics desired and are not a statement of preference nor are they intended to limit or restrict competition. Bidders may submit bids for substantially equivalent products to those designated unless the Invitation to Bid provides that a specific brand is necessary because of compatibility requirements. All such brand substitutions shall be subject to the State's approval.
- 77.0 WARRANTY:** Unless otherwise stated, all equipment shall be new and current model and shall carry full factory warranties. Bidder warrants all goods delivered to be free from defects in labor, material and manufacture and to be in compliance with bid specifications. All implied or expressed warranty provisions of the Uniform Commercial Code apply. All warranties shall be for and benefit the State
- 78.0 BRAND NAME SPECIFICATION:** For purposes of this ITB, certain vehicle accessories are specifically identified by brand name and model/part number. Only the listed brand name and model/part numbers are acceptable. Substitutes shall be not allowed.
- 79.0 ADDITIONS OR DELETIONS:** The State reserves the right to add or delete items, agencies or locations as determined to be in the best interest of the State. Added items, agencies or locations will be related to those on contract and will not represent a significant increase or decrease in size or scope of the contract. Such additions or deletions will be documented via mutual agreement, will be at prices consistent with the original bid price margins, and will be evidenced by issuance of a written contract change notice from the Contracting officer.

80.0 CONTRACT ADMINISTRATION: The administration of this contract, including any/all changes, is the responsibility of the Contracting Officer, HQ State Equipment Fleet.

81.0 PROPRIETARY INFORMATION AND STATEMENTS OF CONFIDENTIALITY:

- 81.1 Except as set forth in this provision, all information in all bids will be made public under AS 36.30.530 not later than the time of issuance of a notice of intent to award.
- 81.2 If the offeror submits information considered by it to constitute a trade secret or proprietary data, such information may be expressly designated as such, and must be accompanied by the offeror's certification that (1) the information has consistently been maintained by its owner as a trade secret or as proprietary information, (2) the owner of the information has taken due care to protect it from release to non-privileged persons, and (3) to the best knowledge of the offeror, the information has not lost its status as trade secret or proprietary information, whether by lack of diligent protection, release to any non-privileged person or otherwise.
- 81.3 **Absence of such certification, any claim of confidentiality will be ignored, and the bidder may not hold any reasonable expectation of confidentiality.**
- 81.4 Any information so certified will be held confidential so long as the contracting officer concurs that it constitutes a trade secret or proprietary data, and deems it not critical to determination of the price, quantity, or delivery terms bid, or the responsiveness of the bid.
- 81.5 By submission of a bid, the offeror consents to the contracting officer's exercise of reasonable judgment as to concurrence with any assertion of confidentiality, and waives any and all claims for release of information that the contracting officer reasonably deems not confidential notwithstanding a certified assertion of confidentiality.
- 81.6 A certified assertion of confidentiality in which the contracting officer concurs, with respect to information the contracting officer deems critical to determination of the price, quantity, or delivery terms bid, or the responsiveness of the bid, will cause the bid to be rejected as a non-responsive bid.

82.0 TRADE RESTRICTION CLAUSE (9 CFR Part 30.13FAA Order 5100.38):

- 82.1 The contractor or subcontractor, by submission of an offer and/or execution of a contract, certifies that it:
 - 82.1.1 is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);
 - 82.1.2 has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country on said list, or is owned or controlled directly or indirectly by one or more citizens or nationals of a foreign country on said list;
 - 82.1.3 has not procured any product nor subcontracted for the supply of any product for use on the project that is produced in a foreign country on said list.
- 82.2 Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to a contractor or subcontractor who is unable to certify to the above. If the contractor knowingly procures or subcontracts for the supply of any product or service of a foreign country on said list for use on the project, the Federal Aviation Administration may direct through the Sponsor cancellation of the contract at no cost to the Government.
- 82.3 Further, the contractor agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in each contract and in all lower tier subcontracts. The contractor may rely on the certification of a prospective subcontractor unless it has knowledge that the certification is erroneous.
- 82.4 The contractor shall provide immediate written notice to the sponsor if the contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The subcontractor agrees to provide written notice to the contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.
- 82.5 This certification is a material representation of fact upon which reliance was placed when making the award. If it is later determined that the contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct through the Sponsor cancellation of the contract or subcontract for default at no cost to the Government.

- 82.6 Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- 82.7 This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

83.0 CIVIL RIGHTS ACT OF 1964, TITLE VI – CONTRACTOR CONTRACTUAL REQUIREMENTS (49 CFR Part 21 AC 150/5100-15)

- 83.1 During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:
- 83.1.1 **Compliance with Regulations.** The contractor shall comply with the Regulations relative to nondiscrimination in federally assisted programs of the Department of Transportation (hereinafter, "DOT") Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- 83.1.2 **Nondiscrimination.** The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.
- 83.1.3 **Solicitations for Subcontracts, Including Procurements of Materials and Equipment.** In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.
- 83.1.4 **Information and Reports.** The contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Sponsor or the Federal Aviation Administration (FAA) to be pertinent to ascertain compliance with such Regulations, orders, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the sponsor or the FAA, as appropriate, and shall set forth what efforts it has made to obtain the information.
- 83.1.5 **Sanctions for Noncompliance.** In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the sponsor shall impose such contract sanctions as it or the FAA may determine to be appropriate, including, but not limited to:
- 83.1.5.1 Withholding of payments to the contractor under the contract until the contractor complies, and/or
- 83.1.5.2 Cancellation, termination, or suspension of the contract, in whole or in part.
- 83.1.6 **Incorporation of Provisions.** The contractor shall include the provisions of paragraphs 1 through 5 in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the sponsor or the FAA may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Sponsor to enter into such litigation to protect the interests of the sponsor and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

84.0 AIRPORT AND AIRWAY IMPROVEMENT ACT OF 1982, SECTION 520 - GENERAL CIVIL RIGHTS PROVISIONS (Airport and Airway Improvement Act of 1982, Section 520, Title 49 47123, AC 150/5100-15, Para. 10.c):

84.1 The contractor assures that it will comply with pertinent statutes, Executive orders and such rules as are promulgated to assure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or handicap be excluded from participating in any activity conducted with or benefiting from Federal assistance. This provision obligates the tenant/concessionaire/lessee or its transferee for the period during which Federal assistance is extended to the airport a program, except where Federal assistance is to provide, or is in the form of personal property or real property or interest therein or structures or improvements thereon. In these cases the provision obligates the party or any transferee for the longer of the following periods: (a) the period during which the property is used by the airport sponsor or any transferee for a purpose for which Federal assistance is extended, or for another purpose involving the provision of similar services or benefits or (b) the period during which the airport sponsor or any transferee retains ownership or possession of the property. In the case of contractors, this provision binds the contractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.

85.0 DISADVANTAGED BUSINESS ENTERPRISES (49 CFR Part 26):

85.1 **Contract Assurance (§26.13):** The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as the recipient deems appropriate.

85.2 **Prompt Payment (§26.29):** The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than **30** days from the receipt of each payment the prime contractor receives from the **State of Alaska**. The prime contractor agrees further to return retainage payments to each subcontractor within [specify the same number as above] days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the **Contracting Officer**. This clause applies to both DBE and non-DBE subcontractors.

86.0 LOBBYING AND INFLUENCING FEDERAL EMPLOYEES (49 CFR Part 20, Appendix A):

86.1 No Federal appropriated funds shall be paid, by or on behalf of the contractor, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the making of any Federal grant and the amendment or modification of any Federal grant.

86.2 If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any Federal grant, the contractor shall complete and submit Standard Form-LLL, "Disclosure of Lobby Activities," in accordance with its instructions.

87.0 ACCESS TO RECORDS AND REPORTS (49 CFR Part 18.36(i), FAA Order 5100.38):

87.1 The Contractor shall maintain an acceptable cost accounting system. The Contractor agrees to provide the Sponsor, the Federal Aviation Administration and the Comptroller General of the United States or any of their duly authorized representative's access to any books, documents, papers, and records of the contractor which are directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcriptions. The Contractor agrees to maintain all books, records and reports required under this contract for a period of not less than three years after final payment is made and all pending matters are closed.

88.0 ENERGY CONSERVATION REQUIREMENTS (49 CFR Part 18.36 & Public Law 94-163):

88.1 The contractor agrees to comply with mandatory standards and policies relating to energy efficiency that are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act.

89.0 BREACH OF CONTRACT TERMS (49 CFR Part 18.36):

- 89.1 Any violation or breach of terms of this contract on the part of the contractor or their subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this agreement. The duties and obligations imposed by the Contract Documents and the rights and remedies available there under shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

90.0 RIGHTS TO INVENTIONS (49 CFR Part 18.36(i)(8) & FAA Order 5100.38):

- 90.1 All rights to inventions and materials generated under this contract are subject to regulations issued by the FAA and the Sponsor of the Federal grant under which this contract is executed.

91.0 TRADE RESTRICTION CLAUSE (49 CFR Part 30.13 & FAA Order 5100.38):

- 91.1 The contractor or subcontractor, by submission of an offer and/or execution of a contract, certifies that it:
- 91.1.1 is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);
 - 91.1.2 has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country on said list, or is owned or controlled directly or indirectly by one or more citizens or nationals of a foreign country on said list;
 - 91.1.3 has not procured any product nor subcontracted for the supply of any product for use on the project that is produced in a foreign country on said list.
- 91.2 Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to a contractor or subcontractor who is unable to certify to the above. If the contractor knowingly procures or subcontracts for the supply of any product or service of a foreign country on said list for use on the project, the Federal Aviation Administration may direct through the Sponsor cancellation of the contract at no cost to the Government.
- 91.3 Further, the contractor agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in each contract and in all lower tier subcontracts. The contractor may rely on the certification of a prospective subcontractor unless it has knowledge that the certification is erroneous.
- 91.4 The contractor shall provide immediate written notice to the sponsor if the contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The subcontractor agrees to provide written notice to the contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.
- 91.5 This certification is a material representation of fact upon which reliance was placed when making the award. If it is later determined that the contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct through the Sponsor cancellation of the contract or subcontract for default at no cost to the Government.
- 91.6 Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- 91.7 This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

92.0 TERMINATION OF CONTRACT (49 CFR Part 18.36(i)(2) & FAA Order 5100.38):

- 92.1 The Sponsor may, by written notice, terminate this contract in whole or in part at any time, either for the Sponsor's convenience or because of failure to fulfill the contract obligations. Upon receipt of such notice services shall be immediately discontinued (unless the notice directs otherwise) and all materials as may have been accumulated in performing this contract, whether completed or in progress, delivered to the Sponsor.
- 92.2 If the termination is for the convenience of the Sponsor, an equitable adjustment in the contract price shall be made, but no amount shall be allowed for anticipated profit on unperformed services.
- 92.3 If the termination is due to failure to fulfill the contractor's obligations, the Sponsor may take over the work and prosecute the same to completion by contract or otherwise. In such case, the contractor shall be liable to the Sponsor for any additional cost occasioned to the Sponsor thereby.
- 92.4 If, after notice of termination for failure to fulfill contract obligations, it is determined that the contractor had not so failed, the termination shall be deemed to have been effected for the convenience of the Sponsor. In such event, adjustment in the contract price shall be made as provided in paragraph 2 of this clause.
- 92.5 The rights and remedies of the sponsor provided in this clause are in addition to any other rights and remedies provided by law or under this contract.

93.0 CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION (49 CFR Part 29 & FAA Order 5100.38):

- 93.1 The bidder/offeror certifies, by submission of this proposal or acceptance of this contract, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency. It further agrees by submitting this proposal that it will include this clause without modification in all lower tier transactions, solicitations, proposals, contracts, and subcontracts. Where the bidder/offeror/contractor or any lower tier participant is unable to certify to this statement, it shall attach an explanation to this solicitation/proposal.

94.0 CLEAN AIR AND WATER POLLUTION CONTROL (49 CFR Part 18.36(i)(12) & Section 306 of the Clean Air Act & Section 508 of the Clean Water Act):

- 94.1 Contractors and subcontractors agree:
 - 94.1.1 That any facility to be used in the performance of the contract or subcontract or to benefit from the contract is not listed on the Environmental Protection Agency (EPA) List of Violating Facilities;
 - 94.1.2 To comply with all the requirements of Section 114 of the Clean Air Act, as amended, 42 U.S.C. 1857 et seq. and Section 308 of the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq. relating to inspection, monitoring, entry, reports, and information, as well as all other requirements specified in Section 114 and Section 308 of the Acts, respectively, and all other regulations and guidelines issued there under;
 - 94.1.3 That, as a condition for the award of this contract, the contractor or subcontractor will notify the awarding official of the receipt of any communication from the EPA indicating that a facility to be used for the performance of or benefit from the contract is under consideration to be listed on the EPA List of Violating Facilities;
 - 94.1.4 To include or cause to be included in any construction contract or subcontract which exceeds \$100,000 the aforementioned criteria and requirements.

95.0 ALASKA BIDDERS PREFERENCE: For the purpose of this ITB, Alaska bidders **WILL NOT** receive any preferences.

96.0 BUY AMERICAN CERTIFICATE:

- 96.1 By submitting a bid/proposal under this solicitation, except for those items listed by the offeror below or on a separate and clearly identified attachment to this bid/proposal, the offeror certifies that steel and each manufactured product, are produced in the United States, as defined in the clause Buy American - Steel and Manufactured Products for Construction Contracts) and that components of unknown origin are considered to have been produced or manufactured outside the United States.
- 96.2 Offerors may obtain from the owner a listing of articles, materials and supplies excepted from this provision.
- 96.3 **To evaluate compliance with the above, the bidder is to print and fill out a copy of this page for each bid submitted.**
- 96.4 **IF THERE ARE NO EXCEPTIONS, WRITE "NONE".**

| <i>Product</i> | <i>Country of Origin</i> |
|-----------------------|---------------------------------|
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97.0 BUY AMERICAN PREFERENCES (Section 9129 of the Aviation Safety and Capacity Expansion Act of 1990 & Title 49 U.S.C. Chapter 501, AIP Program Guidance Letter 91-3):

- 97.1 The Aviation Safety and Capacity Expansion Act of 1990 provides that preference be given to steel and manufactured products produced in the United States when funds are expended pursuant to a grant issued under the Airport Improvement Program. The following terms apply:
- 97.1.1 Steel and manufactured products. As used in this clause, steel and manufactured products include (1) steel produced in the United States or (2) a manufactured product produced in the United States, if the cost of its components mined, produced or manufactured in the United States exceeds 60 percent of the cost of all its components and final assembly has taken place in the United States. Components of foreign origin of the same class or kind as the products referred to in subparagraphs b. (1) or (2) shall be treated as domestic.
- 97.1.2 Components. As used in this clause, components mean those articles, materials, and supplies incorporated directly into steel and manufactured products.
- 97.1.3 Cost of Components. This means the costs for production of the components, exclusive of final assembly labor costs.
- 97.2 The successful bidder will be required to assure that only domestic steel and manufactured products will be used by the Contractor, subcontractors, material men and suppliers in the performance of this contract, except those:
- 97.2.1 that the US Department of Transportation has determined, under the Aviation Safety and Capacity Expansion Act of 1990, are not produced in the United States in sufficient and reasonably available quantities and of a satisfactory quality;
- 97.2.2 that the US Department of Transportation has determined, under the Aviation Safety and Capacity Expansion Act of 1990, that domestic preference would be inconsistent with the public interest; or
- 97.2.3 that inclusion of domestic material will increase the cost of the overall project contract by more than 25 percent.

97.3 **To evaluate compliance with the above, the bidder is to print and fill out a copy of this page for each Bid submitted.**

97.3.1 Location of final assembly:

97.3.1.1.1 Company Name: _____

97.3.1.1.2 Physical Address: _____

97.3.1.1.3 City, State & Zip Code: _____

97.4 Statement of final assembly:

97.4.1 (Provide a written statement of what constitutes final assembly for this item (or items) being offered. Refer to separate attached letter if necessary.)

97.4.1.1 _____

97.4.1.2 _____

97.5 **Percentage of U.S. Components:**

97.5.1 Provide a list of components meeting the requirement of "steel and manufactured products" listed above along with their dollar value, and summarize according to the following example to affirm that a minimum of 60% of all components are manufactured or produced in the United States.

| | |
|---|-----------------|
| Example: | |
| U.S. Manufactured Component | Cost |
| Engine | \$20,000.00 |
| Transmission | 10,000.00 |
| Tires | <u>4,000.00</u> |
| Total Cost of U.S. Manufactured Components..... | \$34,000.00 |
| Cost of item bid = \$50,000.00 | |
| Percentage of U.S. Components = \$34,000/\$50,000 = 68% | |

Bidder's Affirmation of U.S. Componentry (Attach additional sheets if necessary):

| <u>U.S. Manufactured Component</u> | <u>Cost</u> |
|---|-------------|
| 1. _____ | \$ _____ |
| 2. _____ | \$ _____ |
| 3. _____ | \$ _____ |
| 4. _____ | \$ _____ |
| Total Cost of U.S. Manufactured components | \$ _____ |
| Cost of item bid..... | \$ _____ |
| Percentage of U.S. Components..... _____ % | |

SECTION III – SPECIFICATION #217
6x4 Truck Cab & Chassis
Minimum 68,000 GVWR
July 02, 2009

GENERAL SPECIFICATION:

It is the purpose of this specification to describe a new, and of the manufacturer's latest current production model and design, diesel powered, 6x4, minimum 68,000 GVWR, minimum 108,000 GCVWR, truck cab and chassis.

The unit provided is required to meet all current all federal and state regulations such as, but not limited to, EPA emissions, FMVSS, and CFR. **When loaded, and ready for operation including; driver, full fuel load, specific attachments as listed in this specification, and material (gravel or similar) weighing a minimum of 21,600 pounds, spread evenly within the dump box, the unit must not exceed the manufacturer's weight rating of the vehicle at any tire or axle position. Also refer to documentation required.** Overall width exceptions will be made for the belly blade.

The unit is equipped with a dump body. This dump body may be removed and replaced with a 5th wheel plate or a material spreader (sander) in the winter, therefore special controls, hydraulics and electrical wiring with quick connections may be required.

Refer to Section IV - Bid Price Schedule for specific attachments and hydraulics required.

Refer to the mentioned drawing (# 8) for hinge pin type and location.

Unit shall include all standard equipment and accessories as advertised in the manufacturer's specification sheet of model offered, unless otherwise specified herein.

Referenced Standards:

Certain ISO, SAE, and other consensus standards may be referenced in this specification. Unless otherwise specified, the latest version of each standard is to be understood. Such standards apply to this specification whether or not they are required by statutes or administrative law.

Component Selection:

The components selected shall be new and rated for the maximum loading they would be subjected to in severe service. The torque rating of a driven component shall exceed the input torque. The component parts and structure of the unit shall be sized and designed to safely withstand the maximum load imposed, without failure or induction of deterioration. All units shall be constructed from current production components.

Necessary Components:

Contractors shall provide any components, hardware, or part necessary for proper assembly, installation, and operation even though that item(s) is not specifically described in the contract specifications. This includes all fittings, couplers, brackets, adapters, etc. Contractors shall include the cost of such components, hardware, and parts in the bid/contract price.

Component Commonality:

For purposes of maintaining commonality, each specification class shall have identical components and within the classes when practicable, unless the specification or purchase order requires the optional brand or model. All components shall be new and of the manufacturer's latest current production model and design.

APPLICATION:

Primary application is for airport snow removal and sanding at average road speeds of 35 to 40 MPH. Unit will experience high impact and shock loading. In summer months, the unit will be used as a dump truck. Unit will be subject to varying terrain and weather conditions. These units are to operate between minus 30 to plus 80 degrees Fahrenheit.

Note: All weather lubricants are to be utilized to meet the above varying weather conditions.

DOCUMENTATION REQUIRED:

Specifications marked with an asterisk (*) require supporting documentation, indicates specifically what the contractor intends to supply in regard to said items and/or how the specification would be met, in the form of a letter of clarification or by utilizing the space provided following each asterisked item. **If a manufacturer's product brochure or technical data sheet is referred to, it will be tabbed with the specification number to assist the person reviewing the bid.**

Drawings (right side and left side) of proposed spec #217 truck is to include: 8 cubic yard dump body, State Class #840-2 belly blade, fuel tank, hydraulic tank and battery box are to be provided. Blueprint quality drawings are not required.

Dimensional information provided with drawing is to include:

- (1) Cab to dump body dimension.
- (2) Overall length (front of cab to back of 8 yard dump body) dimension.
- (3) Overall Width (with belly blade in transport position).
- (4) Overall height of completed unit dimension (top of exhaust stack may be the highest point).

Weights are to be calculated and provided on the unit with driver (200 pounds), full fuel load, State Class #840-2 oscillating belly blade, and an 8 cubic yard dump body in the following different configurations:

- (1) Oscillating Belly Blade in a lifted (up/transport) position, and empty dump body.

- | | | |
|------|--|---------------------|
| (1a) | Ground weight of right front tire: | _____ pounds |
| (1b) | Ground weight of left front tire: | _____ pounds |
| (1c) | Ground weight of right rear drive tires: | _____ pounds |
| (1d) | Ground weight of left rear drive tires: | _____ pounds |
| (1e) | Total Vehicle Weight..... | _____ pounds |

- (2) Oscillating Belly Blade in a lifted (up/transport) position, and material (gravel or similar) weighing a minimum of 21,600 pounds spread evenly within the dump box.

- | | | |
|------|--|---------------------|
| (2a) | Ground weight of right front tire: | _____ pounds |
| (2b) | Ground weight of left front tire: | _____ pounds |
| (2c) | Ground weight of right rear drive tires: | _____ pounds |
| (2d) | Ground weight of left rear drive tires: | _____ pounds |
| (2e) | Total Vehicle Weight..... | _____ pounds |

1.0 POWER TRAIN:

1.1 Engine:

- 1.1.1 (*) Diesel, 4-cycle, wet sleeved, water mixed with antifreeze cooled: *CATERPILLAR* or *CUMMINS* or *DETROIT DIESEL* or *MERCEDES* or *INTERNATIONAL*. Provided all of the following minimum specifications are met.

- 1.1.2 Displacement, minimum 12.4 liters.
- 1.1.3 (*) SAE gross horsepower, minimum 425.

- 1.1.4 Governed speed, between 1950 and 2100 RPM.
- 1.1.5 SAE peak torque, between 1450 and 1550 pounds foot.
- 1.1.6 To be compatible with transmission supplied.
- 1.1.7 Fiberglass fan (*FLEXLITE* or *KYSOR* or *HORTON* or equivalent). Automatic clutch is acceptable.
- 1.1.8 Air Compressor: *CUMMINS*, *BENDIX* Tu-Flo 550 or *MERITOR WABCO*, 13.2 CFM minimum.
- 1.1.9 Engine Exhaust Brake to be *JACOBS* engine brake ("Jake Brake") or *CUMMINS* Interbrake. To include dash mounted "ON/OFF" and three (3) position switches. A *CATERPILLAR* Model 229-2618 brake is acceptable. A *PACBRAKE* Model P-63 Engine Brake for the Detroit Diesel Series 60 is acceptable. A *MACK* Power Leash is acceptable. A *MERCEDES BENZ* engine brake is acceptable. An *INTERNATIONAL* engine brake is acceptable.

1.2 Air Intake System:

- 1.2.1 Air Cleaner: Single or dual, dry element type, heavy-duty.
- 1.2.2 Equipped with manual two-way "Hot/Cold" air pickup, to draw air from outside or underhood (hose disconnect or plug insert is not acceptable).
- 1.2.3 Air Filter Restriction Indicator: Dash mounted.

1.3 Exhaust System:

- 1.3.1 Regulations may include more than one (1) type of muffler if necessary.
- 1.3.2 To include exhaust pipe with heavy-duty vertical muffler and vertical tail pipe.
- 1.3.3 Exhaust extending two (2) feet above top of cab with turned out curved elbow.
- 1.3.4 Mounted running up right-hand side of cab (right-hand side is preferred, left-hand side is acceptable if required because of snow wing location), behind door.
- 1.3.5 Caged (OEM chrome or stainless steel) to protect against burns.
- 1.3.6 Shock mounted to protect against damage from vibration, if cab mounted.
- 1.3.7 Designed so vision is not impaired out of exterior rear view mirror(s).
- 1.3.8 All connections, dual clamped or *DONALDSON* "Sealclamps" or *DONALDSON* "Band" type or *TORCA*.
- 1.3.9 If flex pipe is utilized, to be stainless steel, not to exceed 18 inches in length.

1.4 Cooling System:

- 1.4.1 To include sight glass for easy viewing from ground with hood in up position (sight glass may be located on expansion tank).
- 1.4.2 Front of radiator to be properly guarded against rocks by including any factory optional grill or grill screen cloth available. In addition, a bug screen is to be included behind the grill.
- 1.4.3 Cooling system mounting and tank bottom configuration to be compatible and so designed as to not interfere with hydraulic pump installation.
 - 1.4.3.1 Refer to "HYDRAULICS" section later in this specification.
- 1.4.4 Coolant to be permanent type antifreeze, affording protection to minus 60 degrees Fahrenheit. To be *DELO* extended life coolant (red), or compatible.
- 1.4.5 To include spin-on type coolant filter, if required, with shut-off valves to prevent excessive loss of coolant when changing of filter.
- 1.4.6 Winterfront (**OPTIONAL ITEM – Refer to Section IV – Bid Price Schedule**):
 - 1.4.6.1.1 Heavy-duty canvas/vinyl construction, snap-on type, with center zipper.
- 1.4.7 Drain cock(s) (a drain plug on the engine is acceptable) to be provided for the low point(s) of cooling system for maximum drainage while unit is on level ground.
- 1.4.8 Engine coolant hoses, including heater hoses, to be *GATES* Greenstripe or *GATES* Bluestripe or *GATES* Fleetrite.
- 1.4.9 Clamps utilized on all pressurized coolant and heater hoses, one (1) inch inside diameter or larger are to be "Constant Torque" design, stainless steel. Some engine manufacturers may not allow changing of all clamps due to warranty. *GATES* Shrink-Band is acceptable in lieu of above.

1.5 Fuel System:

- 1.5.1 Fuel filter(s):
 - 1.5.1.1 To be spin-on type.
 - 1.5.1.2 To include a ¼-turn ball or check valve at the fuel filter(s) if necessary to prevent excessive fuel loss when servicing of filter(s).
 - 1.5.1.3 To be easily accessible.
- 1.5.2 Fuel system to include heated fuel and water separator.

1.6 Oil Filtration:

- 1.6.1 To be spin-on or cartridge type.
- 1.6.2 To be easily accessible.

1.7 Starting Aids:

- 1.7.1 Automatic ether system or glow plugs or grid heater. (**OPTIONAL ITEM –Refer to Section IV – Bid Price Schedule**)
 - 1.7.1.1 If automatic electronic ether injection system, *KBI* Dieselmatic or *TURNER* Quick Start or equivalent.
 - 1.7.1.1.1 To be wired through starter button.
 - 1.7.1.1.2 To include an engine safety sensor switch.

- 1.7.1.1.3 System to be installed in engine compartment and to have maximum protection from the elements.
- 1.7.2 Engine Block Heater: Immersion type, highest wattage available, 110 volt AC (OEM if available).
- 1.7.3 Engine Oil Pan Heater: **(OPTIONAL ITEM – Refer to Section IV – Bid Price Schedule)**
 - 1.7.3.1 Immersion type, *KIM HOTSTART* Model OL41515WT/ALS68-Y or *PHILLIPS* equivalent, 110 volt AC, 150 watt.
- 1.7.4 Battery Trickle Charger: **(OPTIONAL ITEM – Refer to Section IV – Bid Price Schedule)**
 - 1.7.4.1 *SCHAUR* Model HR12C or *SCHUMACHER* Model SE-1-12S, 110 volt AC, minimum 1½ (1.5) amp or *BATTERY TENDER PLUS* 1¼ (1.25) amp, wired into the truck battery charging system. A preferred mounting location for the charger would be under the passenger seat.
- 1.7.5 Power Cords:
 - 1.7.5.1 110 volt AC power cords for engine heaters and trickle charger to be plugged into a single, waterproof, 20 amp, 110 volt junction box with four (4) receptacles. The receptacle box is to include a heavy-duty, but flexible in cold weather, 110 volt AC power cord with waterproof 20 amp *WOODHEAD* NEMA 5 plug or equivalent match, for use with 110 volt AC power source located at the right front plow hitch are for easy access by ground personnel located at the right front plow hitch area. To include matching female connector, 20 amp (to be shipped loose).

2.0 DRIVE TRAIN:

- 2.1 Configuration: 6x4.
- 2.2 Transmission (Refer to Section IV – Contract Price Schedule, for automatic or manual transmission requirement):
 - 2.2.1 (*) *ALLISON WORLD TRANSMISSION* Model 4500 RDSP, 6-speed electronic.

 - 2.2.1.1 To include automatic neutral function with wire 117 and 161.
 - 2.2.1.2 To include the oil level sensor option.
 - 2.2.1.3 To include the Allison dash mounted push button gear selector.
 - 2.2.2 To be compatible with engine.
 - 2.2.3 Oil Cooler Lines: To be guarded and wrapped with *WAYTEK, INC.* Spiral Wrap Tubing. *WAYTEK, INC.*, 1-800-328-2724.
 - 2.2.4 Corrosion Preventative: A corrosion preventative is to be applied to the bottom and as much as possible of the transmission case and pan. An aircraft-type chromate paint is preferred.
- 2.3 Drive Lines:
 - 2.3.1 1810 series heavy wall universal joints on drive lines.
 - 2.3.2 1710 or 1760 series joints on inter-axle drive line.
 - 2.3.3 Drive line yokes to be ½-round (if available) on the drive shafts and interaxle shafts.
- 2.4 Rear Axles:

- 2.4.1 *MERITOR* RT-46-160P. A *MERITOR* RT-46-164PWT Wide Track with pump may be required to provide adequate chain clearance per specification item 3.11.7.
- 2.4.2 *TRACTECH* No-SPIN, in the rear, rear differential.
- 2.4.3 Inter-axle differential lockout with dash mounted warning light.
- 2.4.4 (*) Ratio providing cruising speed of approximately 65 MPH with the maximum speed to be set at 65 MPH.
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- 2.4.5 (*) Peak torque from engine, while plowing snow, at 35 to 40 MPH.
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3.0 CHASSIS:

- 3.1 (*) GVWR: 68,000 pounds minimum. _____
- 3.2 (*) GCVWR: 108,000 pounds minimum. _____
- 3.3 (*) WB (Wheel Base) dimension. _____
- 3.4 (*) CA (Cab to Axle) dimension to be approximately 125 inches. _____
- 3.5 Frame:
- 3.5.1 (*) Yield Strength: 120,000 PSI, minimum. _____
- 3.5.2 RBM:
- 3.5.2.1 (*) To be 2,400,000 inch pounds, minimum (from front of frame to center of front axle). _____
- 3.5.2.2 (*) To be 3,700,000 inch pounds, minimum (from back of front leaf spring's rear shackle to end of frame). Frame is to be double lined from back of front leaf spring's rear shackle to end of frame.
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- 3.5.3 To be completely primed painted to inhibit rust.

- 3.5.4 Also, since unit is to be equipped with a plow hitch and crankshaft mounted hydraulic pump, refer to "PLOW HITCH" and "HYDRAULICS" later in this specification for information about frame extension. Frame extension to be OEM.

- 3.5.5 (*) Overhang/After Frame Dimension (center of rear tandem to end of frame) to be approximately 66 inches.
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- 3.5.5.1 This will place the center of the dump body hinge at 62 ½ (62.5) inches rear of the center of tandem and an approximate distance of 14 ½ (14.5) inches rear of the rear drive tires.

- 3.5.6 Frame is to include an outboard rack mount to accept a 5th wheel plate.

- 3.5.6.1 Outboard racks to be positioned for 5th wheel pin to be able to be located 12 inches forward and 12 inches rearward of center of tandem.

- 3.5.6.2 Rack may have to be notched to allow safety stanchions to work when body is installed.

- 3.6 Front Axle:
- 3.6.1 (*) *DANA SPICER* Model EFA or *DANA SPICER* Model I-220S or *MERITOR* Model MFS 20-133A, minimum 22,000 pound capacity.
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- 3.6.2 Oil seals in hubs.
- 3.6.3 (*) BA (front bumper to front axle) Dimension: (This dimension is based on standard OEM bumper location and does not include any optional front frame extension length).
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- 3.7 Front Suspension:
- 3.7.1 (*) Capacity: Minimum 22,000 pounds total.
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- 3.7.2 Shock absorbers, heavy-duty.
- 3.8 Rear Suspension:
- 3.8.1 (*) *CHALMERS* 800 Series, *FREIGHTLINER* Tough-Trac 2-Stage or *HENDRICKSON* HMX-460, 46,000 pound capacity. To include heavy-duty shock absorbers.
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- 3.8.1.1 *HENDRICKSON* RT-463 (**OPTIONAL ITEM – Refer to Section IV – Bid Price Schedule**).
- 3.8.2 54 inch axle spacing, minimum.
- 3.8.3 To include transverse torque arms, if 60 inch axle spacing and applicable.
- 3.9 Steering:
- 3.9.1 (*) To be *SHEPPARD* M110 or *TRW* THP60 with RCH 45 Aux gear or *SHEPPARD* M100 with M80 or *SHEPPARD* M100 with HD94 or *TRW* TAS 85 Series, dual assist, or dual TAS 65's. To be rated at front axle's GVWR, minimum.
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- 3.9.2 (*) Turning Diameter (both left and right): Curb to curb, (outside front tire) to be maximum 93 feet to the left and 82 feet to the right.
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- 3.10 Brakes:
- 3.10.1 ABS, as required.
- 3.10.2 Full air with low pressure audible and visual warning device located in cab.
- 3.10.3 Front: *DANA SPICER* Model ES-165-6 *MERITOR* Model Cam-Master Q Plus 16.5x6, with outboard drums.
- 3.10.4 Rear: *MERITOR* Model Cam-Master Q Plus, 16.5x7 or *DANA SPICER* Model ES-165-7 16.5x7, with outboard drums.
- 3.10.4.1 Rear Brakes are to accept *SPICER* P/N 4515Q brake shoes.
- 3.10.5 Slack Adjusters:
- 3.10.5.1 To be automatic with handed (if required to prevent interference).

- 3.10.5.2 Sealed against dirt and corrosive materials.
 - 3.10.5.3 Lube fitting for positive lubrication of all moving parts.
 - 3.10.6 Capability for in-field service.
 - 3.10.7 Splash/dust shields, heavy-duty steel, on all axles.
 - 3.10.8 Brake Pedal: **If floor mounted design**, the hinge pin and pedal base/mounting plate located above floor grade shall be stainless steel or zinc. The mounting plate shall be sealed to the floor as to not allow liquid to seep through to the treadle valve assembly below floor.
 - 3.10.8.1 (*) An anodized aluminum base/mounting plate with a stainless steel or zinc plate is acceptable, but will require a 12-year replacement warranty against corrosion failure.
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- 3.10.9 Emergency Brakes: *ANCHORLOCK* Life-Seal or *MGM* TR-TS.
 - 3.10.10 Trailer Brakes:
 - 3.10.10.1 Connections, break-away type, located on rear of unit, next to pintle hitch.
 - 3.10.10.2 Gladhand dust seals.
 - 3.10.10.3 Cab mounted hand control valve.
 - 3.10.11 Air System:
 - 3.10.11.1 Chassis' hoses to be manufacturer's standard.
 - 3.10.11.2 All added air hoses to be SAE 100R5 type "T" Arctic grade (-50 to +240 degrees Fahrenheit).
 - 3.10.11.3 Air Dryer: Air system to include a *BENDIX* AD-IP or *MIDLAND* DA33100 or *ROCKWELL-WABCO* System Saver 1200.
 - 3.10.11.4 Air pressure relief valve to be located under hood or on air tank.
 - 3.10.11.5 Air Reservoir Tanks:
 - 3.10.11.5.1 Primary tank to be heavy-duty steel construction, minimum 1200 cubic inch.
 - 3.10.11.5.2 Secondary tank to be heavy-duty steel construction, minimum 1200 cubic inch.
 - 3.10.11.5.3 To be installed in protected locations.
 - 3.10.11.5.4 Primary air tank, fitted with a quick disconnect air supply fitting, with ¼-turn ball valve mounted on the outside of the left-hand side frame rail. The ¼-turn ball valve is to be capped or plugged.
 - 3.10.11.5.5 All air tanks to be equipped with manual drain petcocks. Petcock(s) or drain actuators to be accessible from side of vehicle, easily accessible from side of unit by ground personnel (a lanyard type cord may be necessary).
- 3.11 Wheels and Tires:
 - 3.11.1 All wheels and tires are to be rated for the axles.
 - 3.11.2 Front Wheels: **Hub** piloted type, steel disc.

3.11.3 Front Tires:

- 3.11.3.1 (*) *BRIDGESTONE* M844F Product Code 291684 or *GOODYEAR* G286SS Product Code 759-452-541 or *MICHELIN* XZY (WB) Product Code 66464, 425/65R22.5, LRL (20PR) minimum, steel belted radial tubeless.
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3.11.4 Rear Wheels: **Hub** piloted type, steel disc.

3.11.5 Rear Tires:

- 3.11.5.1 (*) *BRIDGESTONE* M711 Product Code 283681 or *GOODYEAR* G244 Product Code 138-803-301 or *MICHELIN* XDS Product Code 53709, 11R22.5, LRH (16PR) minimum, steel belted radial tubeless.
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3.11.6 Front and rear tires, including spare tires, are to be siped (the *MICHELIN* XDS tires are not to be siped). Siping is a process that cuts slits across tire treads without removing rubber. Slits should be ¼ (0.25) inch apart and a minimum ¼ (0.25) inch in depth. This process to be accomplished using the *SAF-TEE SIPER* by *SAF-TEE SIPING & GROOVING, INC.*, 3647 E. Sunrise Dr., Minnetonka, MN 55345, Phone (612)935-4540, or equivalent siping process.

3.11.7 Duals to be spaced for use with triple rail chains and shall provide a minimum two (2) inch clearance between the inner sidewall of the dual tire and spring leaves, clamps, hanger or any other obstruction which might interfere with normal operation of tire chains.

3.11.8 *ACCURIDE* Wheel-Guards are to be supplied between the front wheels and the hubs, between the rear wheels and the hubs, and between the rear dual wheels.

3.12 A spare front and rear wheel, with designated tires, mounted. To be shipped loose.

3.13 Mud Flaps: Heavy-duty rubber, installed at rear of front fenders, minimum 12 inches, maximum 14 inches, above the ground. Flaps are to be as wide as tire and extend out to edge of tire, as a minimum. Steel rods, used for anti-sail, are not to be used.

3.14 Front Wheel Wells:

3.14.1 To provide adequate protection to engine compartment, including radiator, engine components, etc., from rocks, mud, and water spray.

3.14.2 Front wheel wells are to be kept clear of components, such as transmission coolers, loose wiring, etc.

3.14.3 To be undercoated with *RHINO LINING* or equivalent.

4.0 ELECTRICAL SYSTEM:

4.1 12-volt negative ground.

4.2 Alternator: 12-volt, 160 amp, *LEECE NEVILLE*.

4.3 Batteries:

4.3.1 Four (4) each, maintenance free 12-volt BCI group 31 batteries.

4.3.2 Each having a 160 minute reserve and minimum 625 CCA at zero degrees Fahrenheit.

4.3.3 Battery box is to be provided to protect batteries from build-up of snow, ice mud, etc.

4.3.3.1 Battery box to be easily accessible utilizing rubber tie downs.

- 4.3.3.2 Battery box location is to be located on outside left frame rail, just behind the cab (if possible), bolted to frame rail, not to interfere with dump box, or belly blade, or if behind cab entry steps, still provide adequate space to prevent any snow or ice build-up under the top step.
- 4.4 Master Switch(s):
 - 4.4.1 High-ampere switch or switches to cut off power source from battery to the ground (ground side) and remainder of electrical system, *COLE HERSEE* #284-02 or *POLLAK* #51-315.
 - 4.4.2 To be mounted on the cab floor, between the rear side of the driver's seat and the door sill.
- 4.5 All standard electrical and lighting equipment to meet ICC Safety Standards.
 - 4.5.1 Refer to "DUMP BODY" section later in this specification for information on lighting requirements.
- 4.6 All electrical control switches to be direct current rated.
- 4.7 Headlights: To be halogen.
- 4.8 Back-Up Alarm: Electronic, self-adjusting sound level, *ACORN PRODUCTS* Model 1D-112AA or *PRECO* Preco-Matic Model 1040 or *STAR* Model Starmatic 63-000 or *TARGET TECH* Model 210504 or *VELVAC* Model 697066 or *WARN* Model Reactor 2100504, located on the rear of the chassis, as per manufacturer's instructions.
- 4.9 Two (2) post terminal block power source, located on the dash.
- 4.10 To include a road speed signal post in the cab (to allow connection for sand spreader controller).
- 4.11 Wiring:
 - 4.11.1 Unit is to include any and all optional RF (Radio Frequency) shielded wiring harnesses available, including the engine and transmission.
 - 4.11.2 Accessory wiring to include rated breaker switches incorporated into the center control console.
 - 4.11.3 Accessory wiring to be in dedicated looms entering cab, not mixed looms. (Example: Strobe light wiring to be in one (1) separate loom).
 - 4.11.4 All wiring to be color coded, and located for maximum protection from road splash, stone abrasion, grease, oil, fuel, and heat from engine and components.
 - 4.11.5 Routing through structural members to be protected by grommets, and to be secured by clips at intervals to prevent rubbing or chafing due to movement.
 - 4.11.6 All applicable junction boxes, light housings and trailer outlet connectors to be constructed of corrosion proof material.
 - 4.11.7 All auxiliary wiring should be continuous (any splices or connectors are to be weather proof) from the cab junction box to the bulkhead connector plate, from there to the body junction box, then from the body junction box to all rear of cab stop, turn, tail, back-up, and strobe lights, and accessories.
 - 4.11.7.1 The harness from the cab junction box shall consist of a seven (7) conductor, *BEE WIRE & CABLE, INC.* or equivalent, SAE & ATA oil and water resistant, good to minus 55 degrees Fahrenheit, trailer wire (as described below), color coded, with six (6) wires of 12 gauge, and one (1) wire of 10 gauge for ground.
- 4.12 Rear Chassis Taillights:

- 4.12.1 The chassis taillights are to be LED and be mounted to the hinge point of the body between the mounting pads for the long members of the dump body.
- 4.13 Provision for mounting rear license plate shall be provided with appropriate light(s) to illuminate the license plate area.
- 4.14 Trailer Wiring and Locations:
 - 4.14.1 Electrical wiring to be *BEE WIRE & CABLE, INC.* or equivalent, SAE & ATA oil and water resistant, good to minus 55 degrees Fahrenheit.
 - 4.14.2 Wires to be a continuous run from source block to plug, *POLLACK #11-724 Split Pin* (to include *POLLACK #11-761 Socket Boot*) or *PHILLIPS* equivalent.
 - 4.14.3 To be located within 18 inches streetside of pintle hitch, same level as pintle (but not on butt plate), to include seven (7) wires. Wired to Federal DOT standards:
 - 4.14.3.1 A *POLLACK* or *PHILLIPS* socket with boot described above is to be used.
 - 4.14.3.2 Wire position #1, white, 10-gauge, for ground.
 - 4.14.3.3 Wire position #2, black, 12-gauge for clearance, side marker, and identification lamps.
 - 4.14.3.4 Wire position #3, yellow, 12-gauge, for left turn.
 - 4.14.3.5 Wire position #4, red, 12-gauge, for stop lights.
 - 4.14.3.6 Wire position #5, green, 12-gauge, for right turn.
 - 4.14.3.7 Wire position #6, brown, 12-gauge, for tail and license plate.
 - 4.14.3.8 Wire position #7, blue, 12-gauge, for ABS power.
 - 4.14.3.9 This plug location must be clearly marked "ABS" with a permanent engraved or welded label.
 - 4.14.4 The lower left rear of cab area location, to include seven (7) wires (for material spreader) set up as follows:
 - 4.14.4.1 A *POLLACK* or *PHILLIPS* socket with boot described above is to be used.
 - 4.14.4.2 Wire position #1, white, 10-gauge, for ground.
 - 4.14.4.3 Wire position #2, black, 12-gauge for clearance, side marker, and identification lamps.
 - 4.14.4.4 Wire position #3, yellow, 12-gauge, for left turn and stop.
 - 4.14.4.5 Wire position #4, red, 12-gauge, for auxiliary circuit.
 - 4.14.4.6 Wire position #5, green, 12-gauge, for right turn and stop.
 - 4.14.4.7 Wire position #6, brown, 12-gauge, for tail and license plate.
 - 4.14.4.8 Wire position #7, blue, 12-gauge, for sander work lights.
 - 4.14.4.9 This plug location must be clearly marked "SANDER" or "MATERIAL SPREADER" with a permanent engraved or welded label.
- 4.15 All lamp connections and all junction box post connections shall be treated with corrosion inhibitor dielectric grease.

5.0 CAB:

- 5.1 Conventional (not cab-over) design with sloping hood to provide minimum bumper to road surface non-viewing area for maximum forward visibility.

- 5.2 To provide maximum room inside the cab for all sizes of operators and components.
 - 5.3 The layout of all controls, gauges and instrumentation is to be ergonomically designed.
 - 5.4 To provide maximum room inside the engine compartment for ease of maintenance on the engine.
 - 5.5 To be conventional severe service cab of welded or riveted type steel and/or aluminum construction (fiberglass construction of roof, hood and fenders is acceptable), and to include the following:
 - 5.5.1 (*) BBC (Bumper to Back of Cab) dimension. This measurement is not to include any of the frame extension length.
 - 5.5.2 (*) Minimum shoulder width of 64 inches (measurement is from inside of door panel to opposite inside door panel.)
 - 5.5.3 Maximum OEM insulation throughout to protect against cold and noise. (Roof, back wall, floor, and firewall, to be covered. Doors are to be OEM paneled).
 - 5.6 Air ride cab is acceptable (non air ride cab is preferred).
 - 5.7 Tilt hood capable of staying open when tilted 45 or more degrees.
 - 5.7.1 Must clear plow hitch without having to tilt plow hitch.
 - 5.7.2 Hold tie downs to be flex rubber type only.
 - 5.8 Free standing grill is required for the "PLOW HITCH" described later in this contract package.
 - 5.9 For ease of engine maintenance, if equipped with a cab interior mounted engine cover (dog house), cover must be easily removed from the cab without having to remove; dash, seat(s), and/or control console pedestal described in the "SPECIFICATION SUPPLEMENT" later in this contract package. The necessary removal of International's shift pad/lever mount is acceptable.
 - 5.10 Dual sun visors.
 - 5.11 Glass:
 - 5.11.1 Safety glass throughout.
 - 5.11.2 Passenger door to include a "Visibility Window" or "Look Down Mirror" to allow viewing of the area along the right-hand side of vehicle.
 - 5.11.3 To include rear window.
 - 5.12 Windshield Wipers:
 - 5.12.1 To be *EVERBLADES* with a steel frame, heated and include a separate dash mounted lighted "ON" switch.
 - 5.12.2 Shall include heavy-duty, dual, electric powered, variable speed, and wipers with intermittent swipe feature.
 - 5.12.3 To include windshield washer system (largest fluid capacity available).
 - 5.13 Visibility:
 - 5.13.1 (*) In addition to the "Visibility Window" or "Look Down Mirror", the special heated wiper blades, the defroster fans, a high air flow heater system and an auxiliary heater, other systems may be required to keep the windows clear of snow, ice, fog, and mud build-up. Describe your system. Heated windshields may be priced as an optional item, as per the last paragraph in the Contract Price Schedule.
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- 5.14 Arctic package fresh air type hot water heater and defroster, to be OEM with minimum 30,000 BTU.
 - 5.14.1 Auxiliary heater, *HUPP* or *RED DOT*, minimum 30,000 BTU.
 - 5.14.2 If an auxiliary heater is requested:
 - 5.14.2.1 Plumbed in series with standard equipment.
 - 5.14.2.2 To include easily accessed in-line shut off valves to prevent excessive loss of coolant when working on system.
 - 5.14.2.3 Located back wall area of cab, with air flow directed towards driver's foot pedals and air flow not obstructed by seat or control tower(s).
 - 5.14.2.4 Controls, easily accessed by driver, to include 2-speed fan and temperature setting.
 - 5.14.3 Defroster Fans: To include two (2) each total (one each left side and one each right side), caged, two-speed defroster fans, located overhead. Switch(s) to located for easy access by driver.
- 5.15 Air Conditioning (**OPTIONAL ITEM – Refer to Section IV – Bid Price Schedule**):
 - 5.15.1 To be OEM, minimum 17,000 BTU.
 - 5.15.2 (*) To be integrated into the OEM cab heater system so as to work in conjunction with the windshield defrosting system.

- 5.16 Rear View Mirrors (Exterior):
 - 5.16.1 Motorized (both left-side and right-side):
 - 5.16.1.1 To be a minimum size of 90 square inches (Includes main and convex).
 - 5.16.1.2 Mirror and brackets are to be stainless steel or anodized aluminum or powder coated steel (poly mirror housing is acceptable).
 - 5.16.1.3 Main mirrors are to be motorized for minimum left/right adjustment.
 - 5.16.1.4 A convex mirror (built-in or separate), approximately eight (8) inches in diameter (semi-rectangular is acceptable) is to be included directly below the main mirror (mounting in the main mirror's housing or directly below the main mirror's housing).
 - 5.16.2 Both the main and the convex mirrors are to be heated.
 - 5.16.3 Mirror heat (both main and convex) to be thermostatically controlled or include a separate, easily accessed, switch with an "ON" indicator light.
 - 5.16.4 Controls for mirror movement to be easily accessed.
- 5.17 Dome Light: OEM, interior roof mounted.
- 5.18 Steering Wheel: To include tilt and telescopic feature.
- 5.19 Seats to be cloth or vinyl with cloth insert in a darker color.
 - 5.19.1 Driver's seat, high back, premium air ride, 6-way with lumbar adjust, air adjust (up/down), and fore/aft.
 - 5.19.2 Companion/passenger seat, mid height or high back.
- 5.20 Storage Pouch: For shipping documents, etc., to be located on driver's door or back wall.


- 5.21 Grab handles, dual (for three-point entry), to assist entry. Located on each side of the cab.
- 5.22 Entry Steps:
 - 5.22.1 Left and right side to include two (2) entry steps.
 - 5.22.2 The height and location to be proportioned for easy access to cab, yet allowing for adequate clearance for belly blade operations.
 - 5.22.3 All steps are to be full width of door area, minimum.
 - 5.22.4 Steps are to be frame mounted and constructed of expanded galvanized, or aluminum, 4.6 inches in depth, minimum.
- 5.23 Fuel Tank and Dump Body Access:
 - 5.23.1 A step or platform providing access for filling of fuel tank and viewing of contents in the dump body is to be provided on the left side, approximately frame height, and having a length from within a minimum of six (6) inches behind the cab to within a minimum of eight (8) inches of the dump body.
 - 5.23.2 The step or platform is to be made of expanded galvanized metal and have a depth of a minimum 12 inches, frame mounted, adequately designed to handle a 300 pound person without deflection.
- 5.24 Door locks.
- 5.25 Rustproof treated prior to assembly of cab interior.
- 5.26 Air Horn: If exterior mounted, to be located on top of cab and include snow shield.

6.0 INSTRUMENTS/GAUGES AND ACCESSORIES:

- 6.1 In addition to what has been described in the CAB section of this specification, the unit is to include a hinged or front serviceable type panel with a full complement of dash mounted instrumentation/gauges and accessories including, as a minimum:
 - 6.1.1 Any and all gauges that show pressures, temperatures, etc., are to be in U.S.A measurements such as PSI, Fahrenheit, etc.
 - 6.1.2 Hour Meter: LCD with no moving parts, running engine activated.
 - 6.1.3 Warning lights for low engine oil pressure and high engine coolant temperature.
 - 6.1.4 Voltmeter.
 - 6.1.5 Engine oil pressure gauge.
 - 6.1.6 Engine coolant temperature gauge.
 - 6.1.7 Air pressure gauge and low pressure audible alarm.
 - 6.1.8 Fuel gauge.
 - 6.1.9 Tachometer.
 - 6.1.10 Speedometer and odometer.
 - 6.1.11 Dash mounted speed control, electronic cruise control type (to allow for engine warm-up to minimum 1400 RPM and PTO requirements).
 - 6.1.12 OEM AM/FM radio with CD (compact disc) player.
 - 6.1.13 Outside Air Temperature Indicator: Electronic (12-volt) gauge to be easily viewed by driver.
 - 6.1.14 All other standard instruments and equipment normally provided.

- 6.2 All switches, gauges and controls to be properly identified.
 - 6.2.1 *DYMO* type tape labels are not acceptable, and stick-on type labels are not acceptable unless they are listed in the parts book with part numbers. Otherwise, the labels are to be riveted or similar to maintain position.
- 6.3 All dials, gauges, switches, controls, and IDs to be properly lighted for day or night operation (a flexible cable night light is not acceptable).

7.0 FUEL TANK (Standard – Behind the Cab):

- 7.1  Heavy-duty with a minimum useable capacity of **120** usable gallons, providing adequate fuel for a ten (10) hour shift, and shall conform to all Federal standards.
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- 7.2 Aluminum. Or steel, pickled and oiled, construction, minimum 10 gauge shell with minimum seven (7) gauge ends.
 - 7.3 Baffles: As required.
 - 7.4 Location and Mounting:
 - 7.4.1 To be located behind the cab.
 - 7.4.2 Fill cap to be located on street side (left) top of tank.
 - 7.4.3 Height shall not extend above bottom of rear truck cab window.
 - 7.4.4 Width shall not extend past cab's width.
 - 7.4.5 Location shall not pose major access problems for maintenance on any components located below the tank.
 - 7.4.6 Shall allow for adequate bracing of vertical exhaust system.
 - 7.4.7 Mounting to include a cushion system to prevent damage to tank from the trucks application.
 - 7.5 Drain, ½ (0.5) inch, minimum.
 - 7.6 Steps and grab handles (three point) on the truck cab and dump body are required for ease of filling tank.
 - 7.7 A shut-off valve (1/4-turn ball) is required at fuel line exit for servicing of fuel system, or removal of tank, without having to drain the tank.
 - 7.8 Fuel lines added by the body builder to be *PARKER/STRATOFLEX* 213 Single Wire or equivalent (with minimum temperatures from minus 55 to plus 300 degrees Fahrenheit). To be FMVSS approved.
 - 7.9 Paint (if steel construction):
 - 7.9.1 Color to be BLACK.
 - 7.9.2 To be cleaned of all contamination and millscale by media blasting.
 - 7.9.3 To be then primed and painted, minimum of 3.5 mils, with urethane product to manufacturer's recommendations or powder coated, black in color.

8.0 BUTT PLATE AND PINTLE HITCH:

- 8.1 To be load rated for tow capacity of 40,000 pounds minimum.
- 8.2 Butt plate, face of, to be flush with end of frame, which will give a dimension of approximately 14 ½ (14.5) inches rear of the rear drive tires. The butt plate shall be similar in size and design as the State's existing year 2000 trucks.

8.3 Pintle Hitch:

8.3.1 *HOLLAND* Model PH-200 or *PREMIER* Model 270A, air cushioned hitch.

8.3.2 Mounting:

8.3.2.1 Mounted to the butt plate.

8.3.2.2 Mounting Height: To be approximately 31 inches from bottom of saddle to level ground, not loaded.

8.3.3 Air cushion to be activated by emergency brake release.

8.3.4 After contract award, there most likely will be changes as to the location of dump body hinge and the butt plate, and on how a rear wing post would be mounted. We will work with the contractor (and body builder) at that time to make these changes. Change orders may be required if agreed upon by the contractor and the State.

8.4 Include area for 7-pin electrical connections.

8.5 To include safety chain "D" rings.

9.0 TOW HOOKS:

9.1 Two (2) each, suitably installed on front of truck frame or frame area of plow hitch, each having sufficient capacity to tow loaded vehicle.

10.0 DUMP BODY (8 YARD) AR400 (OPTIONAL ITEM – Refer to Section IV – Bid Price Schedule):

10.1 (*) It is the intent and purpose of these specifications to describe an AR400 steel constructed, heavy-duty, contractor type, dump body, with a box length of 13 ½ (13.5) feet and a outside box width of 96 to 98 inches. The box is to have a minimum eight (8) cubic yard struck capacity (water level sides), with eight (8) inch raised ends and side board pockets.

10.2 Acceptable manufacturer's are (providing all specifications are met); *BOB'S SERVICES* or *COLUMBIA BODY & EQUIPMENT* or *CRYSTEEL MFG, DEL EQUIPMENT* or *FONTAINE BODY & HOIST, THE HEIL CO* or *HENDERSON MFG* or *LYNNWOOD EQUIPMENT* or *MIDWEST* or *TRUCKWELD* or *WILLIAMSON*.

10.3 Floor, sides and bulkhead to be ¼ (0.25) inch thick AR400 plate steel.

10.3.1 Floor is to be seamless.

10.3.2 Sides are to be seamless.

10.4 Tailgate to be 3/16 (0.1875 inch thick AR400 plate steel.

10.5 Dump body hinges are to be centered 7 ½ (7.5) inches from the end of the dump body and centered 62 ½ (62.5) inches from the chassis trunnion. Clarification Note: The distance to the end of the dump body does not include the tailgate.

10.6 Dump body hinge pins, minimum two (2) inches in diameter, removable, 416 or 303 stainless steel, with grease zerks.

10.6.1 Drawings (7A & 7B) on pins available upon request. The drawings show the hinge pin diameter as 2.25 inches, which is incorrect. The correct diameter is 2.0 inches.

10.7 Tailgate Release:

10.7.1 To be *ANCHORLOCK* Model 24LS or *MGM* Model Over-Center Lock or *VELVAC* Model 101003, electric solenoid operated two-way tailgate release air cylinder.

10.7.2 Permits driver to unlock tailgate without leaving cab (console mounted switch).

- 10.7.3 Tailgate release mechanism must hold and release at a 45 degree raised position, fully loaded (sand or gravel).
- 10.8 Cab guard, heavy-duty, OSHA approved, minimum 36 inch depth, full width (offset or cut away if necessary for use with vertical exhaust tailpipe). Constructed of minimum 3/16 (0.1875) inch high tensile (50,000 PSI) material.
- 10.9 Lighting and Wiring:
 - 10.9.1 Strobe Lighting:
 - 10.9.1.1 To be equipped with the *WHELEN* Super Strobe system as set forth in referenced *WHELEN Drawing (3C)* with the following noted changes.
 - 10.9.1.2 The *WHELEN* Model USP64LX (change from drawing) Strobe Power Supply is to be installed inside the chassis cab a minimum of two (2) inches above cab floor. A preferred location would be by the passenger seat area with easy access for maintenance.
 - 10.9.1.3 To include separately switched with "HIGH/OFF/LOW" console mounted switch.
 - 10.9.1.4 Two (2) each *WHELEN* Model L31H LED strobe lights (change from drawing). Amber lens light to be mounted on forward left corner of cab guard and blue lens light to be mounted on forward right corner of cab guard.
 - 10.9.1.5 Two (2) each *WHELEN* Model S Head Assemblies to be mounted approximately seven (7) feet above ground level in rear corner posts. Left unit to be amber, right unit to be blue.
 - 10.9.2 All-in-one stop, turn, and taillights, and back-up lights shall be shock mounted *TRUCK-LITE* Model Super 44 LED. To be mounted in the rear corner posts below the strobe lights (described later in this specification) with the back-up lamp being mounted below the combination lamp.
 - 10.9.3 To include all necessary marker and clearance lights, recessed and/or guarded to prevent damage. To be LED.
 - 10.9.4 Wiring:
 - 10.9.4.1 To include *BETTS* vapor proof system or *TRUCK-LITE* super system, installed to meet all Federal and State DOT regulations.
 - 10.9.4.1.1 This closed system shall be designed to protect against abrasion, salt, capillary action, and physical damage using sealed junction boxes, compression fittings and standard production *BETTS* or *TRUCK-LITE* sealed wiring harnesses.
 - 10.9.4.2 All wire ends shall be crimped and soldered.
 - 10.9.4.3 Insulation-piercing connectors are not acceptable.
 - 10.9.4.4 All harnesses shall be supported by rubber coated stainless steel band clamps placed approximately every 24 inches.
 - 10.9.4.5 All lamp connections and all junction box post connections shall be treated with corrosion inhibitor dielectric grease.
- 10.10 Mud flaps, anti-sail, to be plain black rubber or heavy-duty neoprene, suspended from dump box to approximately 12 inches above ground. Minimum 24 inches wide and installed forward and behind drive wheels.
- 10.11 Body mounted safety stanchions, to hold dump body in approximately a 45 degree angle, permanently installed on both sides of body, built to rest in a heavy-duty mounted socket, without a second person needed to guide into place.

- 10.11.1 To be secured tightly to body with rubber tie downs when not in use.
- 10.12 Snow tire chain clearance must be maintained per cab and chassis specification.
- 10.13 All side bracing, tailgate and running boards to be sloped. To include two (2) each 12 inch long expanded metal steps on running boards at front of box and over trunnion.
- 10.14 Weight distribution of the chassis:
- 10.14.1 Dumping geometry on body in relation to the hinge, overhang and angle of dump must be cleared with the State Equipment Fleet Spec Writer, before manufacture.
- 10.15 Dump Hoist:
- 10.15.1 Mounting to the frame is to include an easy bolt-on design to allow removal of the dump hoist assembly to install a sander body.
- 10.15.2 (*) Telescopic front head mount (trunnion mounted is acceptable), minimum six (6) inch, *COMMERCIAL SHEARING* or *CRYSTEEL*, *HEIL* or *CUSTOM HOIST* or *MAILHOT*.
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- 10.15.3 To provide a minimum 50 degree dump angle.
- 10.15.4 Hydraulic porting to be one (1) inch with one (1) inch hose.
- 10.15.5 Hydraulic porting to provide a dump body raise time of between 18 to 27 seconds, based on an engine RPM of 1,500.
- 10.15.6 Hydraulic porting to provide a dump body lowering time of between 20 to 25 seconds, empty.
- 10.15.7 Capable of lifting the body to a minimum of 50 degrees dumping angle, be able to pull itself off stroke without bottoming the telescoping bearings and have a dumping cycle in keeping with the standards of the industry.
- 10.15.8 Shall accept a minimum working pressure of 2,000 PSI.
- 10.16 Dump Body Stop:
- 10.16.1 A cable stop from rear part of dump body to dump lever control valve to be properly installed to prevent body from lifting to a point where hoist cylinder can become overextended to where hoist can bind and not lower properly. (Internal hoist cylinder bypass type stops are not acceptable.)
- 10.16.1.1 Manual dump body stop valve to be *FORCE AMERICA* p/n FRC904S-C-16 or *MONROE EQUIPMENT* #HP0V1 or equivalent.
- 10.16.2 All welding to meet American Welding Society specifications, Structural Welding Code D1.1 (current editions).
- 10.17 Paint:
- 10.17.1 To be painted with polyurethane.
- 10.17.2 To be Airport Yellow.
- 10.17.3 Paint manufacturer's approved primer, sealer and thinner is required.
- 10.18 Any and all grease fittings are to be a threaded zerks. Press-in type zerks are not acceptable.

11.0 HYDRAULICS (OPTIONAL ITEM – Refer to Section IV – Bid Price Schedule):

- 11.1 It is the intent and purpose of this specification to describe a hydraulic system to be installed for operation of; dump body or sander, front plow equipment, belly blade, and snow wing.

- 11.2 (*) Acceptable pump is; US manufactured axial piston pump, *PARKER* PAVC 100 or *REXROTH* A10V0100, pressure and flow compensated load sensitivity, minimum 6.1 cubic inch displacement. Pump to have a minimum two (2) inch suction, 1¼ (1.25) inch **SPLINED** drive shaft, and SAE type “C” mounting flange.
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- 11.2.1 To include a one (1) inch high-pressure steel ¼-turn ball valve at the pump outlet.
- 11.3 Cooling system mounting and tank bottom configuration to be compatible and so designed to not interfere with hydraulic pump installation.
- 11.4 Crankshaft PTO adapter, installed by the truck manufacturer to accept *SPICER* Series 1310 universal.
- 11.4.1 Drive line yokes to be ½-round (if available) on the drive shaft.
- 11.5 Main Control Valve Bank:
- 11.5.1 (*) Valves are to be *PARKER*.
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- 11.5.2 Hydraulic valves shall be modular manifold or sectional with the exception that the auger and spinner functions can be of a manifold design with integral end cover.
- 11.5.3 Each function requires an individual manifold or section or manifold/end cover stacked together.
- 11.5.4 Intentionally left blank.
- 11.5.5 All segments shall have heavy-duty continuous duty coils and connections shall be with *HIRSHMAN* or *AMP* Timer connectors.
- 11.5.6 Each section shall be equipped with a manual adjustable override.
- 11.5.7 The dump body segment shall be rated with to minimum 35 GPM with all others rated to minimum 20 GPM.
- 11.5.8 Valves to be arranged as follows:
- 11.5.8.1 **Hoist** - 3-way, single acting cylinder.
- 11.5.8.2 **Belly Blade** – Circle turn, 4-way, double acting cylinder.
- 11.5.8.3 **Belly Blade** – Curl, 4-way, double acting cylinder with pressure relief for lower.
- 11.5.8.4 **Belly Blade (Oscillating)** – Lifts left, 4-way, double acting cylinder with lock valve.
- 11.5.8.5 **Conveyor**
- 11.5.8.6 **Spinner**
- 11.5.8.7 **NOTE:** Valve stack may differ from truck to truck, depending on attachments. The last two (2) functions, Conveyor and Spinner, could alternatively be supplied with a two (2) function manifold using *HIRSCHMAN* or *AMP* Timer connectors. This manifold would also include an integral end cover function.
- 11.6 Valve Bank Enclosure:
- 11.6.1 Valve assembly shall be mounted in a weather tight enclosure.
- 11.6.2 Enclosure shall be fabricated of 12 gauge steel and designed so that it will not allow moisture or dirt inside.

- 11.6.2.1 To be heavy-duty so that top can be used as a step to allow operator or maintenance personnel access to fuel tank and view contents of dump body or material spreader.
 - 11.6.2.2 Top of enclosure is to be equipped with expanded grip strut metal.
- 11.6.3 Location: To be outside of frame, left side directly behind cab (mounted on "L" brackets).
- 11.6.4 Valves to be mounted with all ports coming out the bottom with holes allowing for hose adapter fittings.
- 11.6.5 Valves will be "boxed in" with cover and not the base.
- 11.6.6 The cover shall be held onto the enclosure by four (4) each heavy-duty type rubber latches.
 - 11.6.6.1 The cover shall be easily removable, providing access to the valves, when the dump box is in the down position.
- 11.6.7 All plumbing shall be external, directly out the bottom of the valve enclosure.
- 11.7 Sand Spreader Control:
 - 11.7.1 Refer to 12.0 CONTROL CONSOLE.
- 11.8 Hydraulic Reservoir:
 - 11.8.1 Capacity: Minimum 30 usable gallons with two (2) inch air space.
 - 11.8.2 Constructed of minimum seven (7) gauge pickled and oiled steel.
 - 11.8.3 Location:
 - 11.8.3.1 To be mounted above the pump to help prevent possibility of cavitation.
 - 11.8.3.2 The height of the tank is not to block the rear window of the cab
 - 11.8.3.3 Access, utilizing grip strut metal step(s) or platform, shall be provided, along with hand grabs as necessary.
 - 11.8.4 Suction Outlet:
 - 11.8.4.1 To provide a removable 100 mesh screen in the hydraulic tank suction outlet sized for proper flow.
 - 11.8.4.2 The suction port shall be located slightly off of the bottom of the reservoir.
 - 11.8.4.3 To include a two (2) inch full flow ¼-turn brass ball valve, for servicing of tank.
 - 11.8.5 To include a magnetic drain plug, minimum ¾ (0.75) inch NPT. To include a sight glass in a protected location, but be easily seen by ground personnel.
 - 11.8.6 Filler breather cap assembly to include a removable basket and chained cap.
 - 11.8.7 Design should provide for easy access to filler and plumbing.
 - 11.8.8 Cleanout Access: To include cleanout cover(s) or plate(s) to allow access to all areas within the reservoir tank.
 - 11.8.9 Hydraulic system filter to be spin-on replaceable absolute rated element filter (minimum 10 micron) on return side with return line check valve between tank and filter to prevent excessive loss of oil when changing of filter.
 - 11.8.9.1 To include a filter condition or restriction indicator at the filter location.
 - 11.8.10 Sight glass(es) to show maximum and minimum levels.

- 11.8.11 To include an electric low level warning device with a console mounted light and audible buzzer indicating when oil is down to low level on the reservoir sight glass.
- 11.8.12 To include a high temperature warning device with a dash or dash or console mounted light.
- 11.8.13 Tank fittings are to be machined steel for pressure and suction.
- 11.8.14 Return plumbing in the tank is to include a vertical down pipe below oil level with a 45 degree cut at the outlet of the pipe.
- 11.8.15 Design shall be up to the standards of the industry, with reference to welding, baffles and specific requirements listed above.
- 11.8.16 Hydraulic Hoses and Hose Fittings:
 - 11.8.16.1 Hydraulics with capped ends for folding gooseneck trailer and side-dump trailer and belly dump sander/material spreader to be located on back passenger side of headache rack, approximately six (6) inches above drom deck floor. Pressure and return lines to be clearly labeled with engraved plates that are secured with bolts or machine screws to the headache rack.
 - 11.8.16.2 High pressure hydraulic hose to be *WEATHERHEAD* H-104 or *GATES* G2L Polorflex, or equivalent.
 - 11.8.16.3 Low pressure hydraulic hose to be *WEATHERHEAD* H-325 or *GATES* G2L Polorflex, or equivalent.
 - 11.8.16.4 Suction line is to be 100R4.
 - 11.8.16.4.1 Low pressure hydraulic suction line is not acceptable.
 - 11.8.16.5 All hoses to be equipped with *WEATHERHEAD* Coll-O-Crimp or *J.I.C.* fittings.
 - 11.8.16.6 Fittings; "O" split-flange "O" ring type with *J.I.C.* and 45 degree NPT type to be used only where "O" ring types are not suitable.
 - 11.8.16.7 All hoses and lines, properly sized, installed, and secured, to provide adequate function speed, proper bend radius and avoid sag and chaffing.
 - 11.8.16.8 Hydraulic Lines: To be guarded and wrapped with *WAYTEK, INC.* Spiral Wrap Tubing. *WAYTEK, INC.*, 1-800-328-2724.
 - 11.8.16.9 Routing to be most advantageous to future maintenance.
 - 11.8.16.10 Routing of lines are not to be above, below or outside of frame.
- 11.9 Hydraulic Oil: Units to be provided with AW32, provided these oils are approved by the hydraulic component manufacturers for our application.

12.0 CONTROL CONSOLE:

- 12.1 All functions, other than standard OEM chassis or otherwise specified, may be provided from within the cab from a centrally mounted control console or from a conveniently located position on the dash by OEM chassis.
 - 12.1.1 Exterior mirror control switches may be located on this console.
 - 12.1.2 The sander control is to be placed at an angle for easy sight and access to controls.
- 12.2 The control console will house the electronic spreader control, auxiliary switches, warning lights and buzzer, and controls, as required, for the belly blade, dump hoist, and material spreader.
- 12.3 **Joysticks for proportional hydraulics** is to include the following:

- 12.3.1 (*) The *COMPONENT TECHNOLOGY* Model Stormguard SG31 or *FORCE AMERICA* Patrol Commander Ultra Series or *MONROE* I-Select, or equivalent, provided the following specifications are met:
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- 12.3.1.1 On automatic transmission equipped trucks that include the transmission shift lever option, the shift lever is to be mounted for easy and quick access.
- 12.3.1.2 Each joystick is to include a "Dead-Man" switch.
- 12.3.1.3 All switches and indicator lights are to be easily accessed/viewed.
- 12.3.1.4 All valve function to be proportional controlled by the joysticks, with exception to the Belly Blade Circle Turn described in Specification Item 104.5.8.7, which may be controlled by a rocker switch.

12.4 Sander Control:

12.4.1 Conveyor control.

12.4.2 Spinner control.

12.4.3 Sander Control Features:

- 12.4.3.1 (*) *FORCE AMERICA* Model SSC2100 or *COMPONENT TECHNOLOGY* Model AS3 or *BOSCH REXROTH* Model CS230 or *MONROE* MC-270C, or equivalent built-in unit.
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- 12.4.3.2 Ground based spreader control.
- 12.4.3.3 Material rate selections (minimum of 9 on settings).
- 12.4.3.4 Detented control dials (minimum of 9 on settings).
- 12.4.3.5 Standby with indicator light.
- 12.4.3.6 Integrated spinner/blast dial with light.
- 12.4.3.7 Integrated blast function.
- 12.4.3.8 Blast timer cancel.
- 12.4.3.9 Mechanical or electric speedometer.
- 12.4.3.10 Current compensated valve drive outputs.
- 12.4.3.11 Remote standby and blast inputs.
- 12.4.3.12 Adjustable P.W.M. (Pulse Width Modulation) frequency.

12.4.4 The unit must be supplied with a separate easy to service ground sense signal connection, valve control connection, and main power connection.

12.4.5 To indicate when the material/sand spreader control system is operating, a dash mounted (or it may be also incorporated into the dash mounted 'heads-up' display) 5/8 inch diameter amber indicator light that is easily seen is to be included. The light shall be a COLE HERSEE p/n PL-116-AC001 or equivalent.

12.5 The center must also be supplied with color-coded wiring throughout.

12.6 All of the above controls to be properly labeled, illuminated, and be adequately spaced for ease of operation.

12.7 The console is not to interfere with the removal of the doghouse, if so equipped.

- 12.8 The three (3) joystick system and sander controls with connected wide and full length armrest is to be able to be adjusted up/down, side to side as well as forward/backwards. This console is to be connected to the driver's seat.
- 12.9 The location of the hand control levers, switches and transmission shift lever are to be approved prior to pilot inspection.
- 12.10 Switch Panel and Light System:
- 12.10.1 Switches shall be minimum 15 amp rating with ring terminals, magnetic automatic self-reset internal circuit breaker type including dual intensity light indicators.
 - 12.10.2 Switch labeling shall be by means of a backlit silk screened or COMPONENT TECHNOLOGY Touch-Guard or similar, DYMO type labels are not acceptable.
 - 12.10.3 Switches shall be mounted so that the upper throws correspond to ON function.
 - 12.10.4 Switches shall have six (6) inches of slack wire to allow for serviceability.
 - 12.10.5 Switches and indicator lights, as required, shall be labeled and function as follows:
 - 12.10.5.1 Truck Lights –
 - 12.10.5.1.1 PDT, 2-Position, ON/OFF
 - 12.10.5.2 Belly Blade Lights –
 - 12.10.5.2.1 SPST, ON/OFF
 - 12.10.5.3 Sander Lights –
 - 12.10.5.3.1 SPST, ON/OFF
 - 12.10.5.4 Extra Switch –
 - 12.10.5.4.1 SPST, ON/OFF
 - 12.10.5.4.2 **(OPTIONAL ITEM – Refer to Section IV – Bid Price Schedule):** When requested, this switch is to be supply power to the #217 6x4's wire position #4, in the 7-wire socket located at the lower left cab area for the sander/material spreader. The label would be "Pre-Wet". In addition, a Pre-Wet "ON" indicator light would be required. NOTE: A RELAY IS NOT NEEDED BECAUSE ONLY 1.67 AMPS IS REQUIRED TO POWER A COIL ON THE SANDER.
 - 12.10.5.5 Air Tailgate (with raised guard) –
 - 12.10.5.5.1 SPST, UNLATCHED/CLOSED
 - 12.10.5.6 Air Tailgate Unlatched –
 - 12.10.5.6.1 Indicator Light
 - 12.10.5.7 Body Up –
 - 12.10.5.7.1 Indicator "UP" Light
 - 12.10.5.8 Low Hydraulic Oil –
 - 12.10.5.8.1 Warning Light
 - 12.10.5.9 High Hydraulic Oil Temperature –
 - 12.10.5.9.1 Warning Light.

- 12.11 Main 12-volt DC battery feed to control console shall be protected by a *WIRED-RITE* 80 amp manual reset circuit breaker or equivalent. This breaker protects and provides power to a 75 amp *BOSCH* relay. This relay provides power to all circuits when ignition switch is engaged.
- 12.12 Power to the console shall be provided through an *ANDERSON POWERPOLE* Model PP75A with four (4) gauge terminals.
- 12.13 The console will also incorporate *AMP CPC* or similar, flange mount connectors to allow for easy removal of console from the cab.
- 12.14 All switches, gauges and controls to be properly identified.
 - 12.14.1 *DYMO* type tape labels are not acceptable.
 - 12.14.2 Stick-on type labels are not acceptable unless they are listed in the parts book with part numbers. Otherwise, the labels are to be riveted or similar to maintain position.
- 12.15 All dials, gauges, switches, controls, and ID's to be properly lighted for day or night operation (a flexible cable night light is not acceptable).
- 12.16 The control console/pedestal is to be mounted between the driver and passenger seat, but is not to interfere with removal of the "dog-house" access cover to the engine.
- 12.17 Access panels, including a lift-out or hinged panel for access to electrical switches, indicators, strobe light power supply, etc., shall be provided for ease of maintenance.
- 12.18 The Cab floor console/pedestal mount is to be properly reinforced to prevent fatigue failure (existing cab floor bracing to be utilized where possible).
- 12.19 **NOTE:** The location of the hand control levers, switches and transmission shift lever are to be approved by the Contracting Officer or Specification Writer **prior to the pilot inspection.**
- 12.20 Wiring:
 - 12.20.1 The system shall include all necessary wiring and switching required to be fully operational.
 - 12.20.2 All wiring that will be exposed outside the vehicle cab shall be of weatherproof TPE type, or equivalent.
 - 12.20.3 Connectors:
 - 12.20.3.1 To be zinc die-cast E-coated or better.
 - 12.20.3.2 To provide complete sealing.
 - 12.20.4 The cable jacket to be TPE thermoplastic elastomer and is to be molded to the connectors.
 - 12.20.5 Cable to be resistant to oxidation, heat, oil, low temperature flexibility, weather, sun, ozone, abrasion, flame, water, acid, alkali, gasoline, benzyl, degreaser solvents, and alcohol.

13.0 CLASS 840-2 - BELLY BLADE: Oscillating

- 13.1 (*) To be *MONROE* Model PB/TG-12 (Oscillating) or *MONROE* Model MS3512-OSC, Extra Heavy-Duty Underbody Scraper. Unit provided to be the most heavy-duty model available.
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- 13.2 Cylinder rods to be nitrided.
- 13.3 Moldboard:
 - 13.3.1 Hinges are to be bolted.
 - 13.3.2 Height:

- 13.5 Oscillating types (OPTIONAL ITEM – Refer to Section IV – Bid Price Schedule):**

- 13.5.2.5 The hydraulic cylinders are to be a minimum of 3-1/2" bore diameter with a 1-1/2" diameter rod.
- 13.5.2.6 This to be accomplished by the lift cylinders operating a series of "parallel lift linkages, slide and bell cranks.
- 13.5.3 For the *MONROE* Model MS3512-OSC blade the following is to apply:
 - 13.5.3.1 Scraper hanger system shall be designed to allow independent left and/or right vertical moldboard height adjustment.
 - 13.5.3.2 Scraper will be variable pitch 6-way design with power up and down, power left and right and power tilt left to right and right to left independently.
 - 13.5.3.3 Side plates shall incorporate a 1-1/2 (1.5) inch thick slide mechanism consisting of a 3/4 (0.75) inch thick steel plate with a 3/8 (0.375) inch thick UHMW polyethylene plastic attached on both sides of the mating surface designed to prevent excess wear and a non-stick surface that does not require lubrication.
 - 13.5.3.4 The side plate will have a 28 inches long HD piano hinge with a 1-1/2 (1.5) inch I.D. hinge pin that will allow the scraper to oscillate without binding.
 - 13.5.3.5 Independent hydraulic oscillation will be accomplished using two (2) each 4 inch I.D. double acting HD cylinders with nitrated two (2) inch O.D. rods.
 - 13.5.3.6 Cylinder attachment to the oscillating side plates will utilize a HD clevis on the rod end and a HD tube on the base end.
 - 13.5.3.7 All moving parts will have a threaded zerk for lubrication.
- 13.6 All components to be heavy-duty style. Refer to APPLICATION of snow removal on page one (1) of truck specifications.
- 13.7 Lighting:
 - 13.7.1 Two (2) each *WAGNER* Model H7610, or equivalent, PAR46, halogen flood lights, 50 watt, 5,200 candlepower, mounted into SIGNAL STAT Model 620H adjustable housings, located on each side of truck, approximately level with top of frame, on lower rear corner of cab areas with lights directed onto blade.
 - 13.7.2 Refer to specification supplement item 12.0.0 CONTROL CONSOLE for switch information.
- 13.8 Paint:
 - 13.8.1 To be cleaned of all contamination and millscale by media blasting.
 - 13.8.2 To be then primed and painted, minimum of 3.5 mils, with urethane product to manufacturer's recommendations or powder coated, black in color.
- 13.9 All hardware (nuts and bolts) to be grade-8.
- 13.10 Any and all grease fittings are to be a threaded zerk. Press-in type zerks are not acceptable.

14.0 PAINT - TRUCK CAB AND CHASSIS:

- 14.1 Paint shall meet the same minimum quality requirements as the original manufacturer's standard for acrylic enamels, unless otherwise specified.
- 14.2 All painted surfaces to be primer coated with paint manufacturer's recommended primer for paint used.
- 14.3 To be OEM, AIRPORT YELLOW, polyurethane.
- 14.4 Hood (top surface only) to be painted flat (non-reflective) black.

- 14.5 Remainder, including; frame, battery box, running gear, etc., to be painted standard black.
- 14.6 Wheels are to remain factory OEM paint. White or light Gray is preferred.
- 14.7 NOTE: Do not paint any aluminum or stainless steel. (Non cab related parts).

15.0 RFI AND EMI PROTECTION:

- 15.1 Because of the electronic instrumentation controlling electric over air switches, etc., RFI and EMI protection is required to help eliminate malfunctions because of radios. This protection is to cover frequency ranges from 47 to 47.5 MHz. Radios will be producing up to 100 watts of power.

16.0 TRAINING (OPTIONAL ITEM – Pricing is required. Refer to Section IV – Bid Price Schedule):

- 16.1 The contractor is to provide qualified factory trained instructors, within 30 days of acceptance by the State. Please give advance notice (call the Contracting Officer for the name and telephone number of the Regional Equipment Manager or Superintendent).
- 16.2 The contractor is responsible for the instructors being on time for the training.
- 16.3 Total of 8 hours in McGrath, AK.
- 16.4 To include a minimum of four (4) hours of operator training including the following, as a minimum applicable agenda:
 - 16.4.1 Operating procedures per operating manual.
 - 16.4.2 Break-in procedures.
 - 16.4.3 Equipment limitations.
 - 16.4.4 Operator maintenance.
 - 16.4.5 Before operations checks and lubrication.
 - 16.4.6 Safety.
 - 16.4.7 Cold weather operations.
 - 16.4.8 Jump starting.
 - 16.4.9 Welding on equipment.
 - 16.4.10 Towing or transporting equipment.
 - 16.4.11 Instruments and controls.
 - 16.4.12 Gauge interpretation.
 - 16.4.13 Equipment and attachment operation, Do's and Don'ts.
- 16.5 To include a minimum of four (4) hours of mechanics (Journeyman level) training including the following theory, trouble shooting, and test procedures for, as a minimum applicable agenda:
 - 16.5.1 Electronics.
 - 16.5.2 Electrical.
 - 16.5.3 Hydraulics.
 - 16.5.4 Air system.
 - 16.5.5 Drive train.
 - 16.5.6 Engine and transmission electronics.

17.0 INSPECTIONS (OPTIONAL ITEM – Refer to Section IV – Bid Price Schedule):

- 17.1 The contractor will be required to provide a vehicle inspection at final completion prior to shipment to final FOB point.
- 17.2 The contractor is to provide the State **30 days notice** prior to each inspection for travel arrangements.
- 17.3 The truck will be required to be complete and ready for service at the time of the inspection. Material and equipment will be provided by the contractor or it's subcontractor for conducting weight tests.
- 17.4 Representatives of the State will inspect specific completed units for conformance to specifications. The completed units, component equipment, and accessories shall be inspected and/or tested by the **manufacturer** for compliance with specifications **prior** to the arrival of the State inspection team. The State reserves the right to appoint an independent inspector at the State's expense to periodically monitor the progression of the unit(s) during the manufacturing process.
- 17.5 The contractor shall provide full access to the State's inspector(s) or their designee(s) to the plant(s) including the plant(s) subcontractor(s) where manufacture is taking place.
- 17.6 These inspections by the State will be thorough and very critical, and will encompass a complete review of the specifications. Adequate time and technical personnel shall be made available to assist the State in these inspections.
- 17.7 Inspection Trip Costs: Should the vehicle inspection be other than in Anchorage, Alaska, contractors are to include in their contract price round trip coach "Y" air fare (ticket(s) to have capability to transfer from one major airline to another - not supersaver), with open arrival and departure times, for each inspector to the manufacturer's plant. It is also possible that the inspector that was scheduled to go on the trip will need to be replaced by someone else after the airline tickets have been purchased, so tickets may need to be changed. This is one reason for the "Y" class tickets.
 - 17.7.1 Per diem for each inspector shall be at a rate of \$150.00 per day each (travel day + 2 inspection days +travel day).
 - 17.7.2 The successful vendor shall assist by booking lodging reservations. Meals and lodging will be paid by the State inspectors.
 - 17.7.3 The successful vendor shall arrange and furnish all ground transportation necessary to conduct the inspection. Rental vehicle shall be full size (Chevy Malibu, Ford Taurus, etc.).
 - 17.7.4 While the State recognizes contractual responsibility in testing, the State reserves the exclusive right to reduce the number of inspectors when and if that action seems prudent. If the number of inspectors is reduced, the Contractor will return to the State all monies saved by that action within 30 days following the actual inspection.
- 17.8 It shall be the responsibility of the State inspector(s) to technically inspect and test the unit for compliance with the specifications.
- 17.9 It shall be the responsibility of the Contracting Authority Representative to observe the inspection and test to assure compliance with the published terms, conditions, and specifications of the contract, and to mediate any disputes, which may arise between the manufacturer and the Department of Transportation's representatives.
- 17.10 If it becomes necessary, the State or its representative will conduct re-inspection of any subsequent work to be performed by the contractor. Should the State decide a re-inspection(s) of the vehicle is required, the vendor shall be required to pay for round trip air fare, ground transportation and per diem, as described previously, for the re-inspections.
- 17.11 The vehicle inspection may result in minor modifications, which would require negotiation with the Contracting Officer. A change order to the contract must be issued prior to any modifications being accomplished.

- 17.12 **FINAL ACCEPTANCE REMINDER:** Final acceptance is at final destination; however, all major tests will be conducted at the manufacturer's place of business, unless the State has reason to believe alterations or damages have taken place which may have changed the performance or design characteristics of the unit since the time of inspection at the manufacturer's location.

18.0 MISCELLANEOUS:

- 18.1 Lubricants: Unit's components will include lubricants matched for the weather temperatures for the area being delivered. For example, low temp grease should be installed in the slack adjusters.
- 18.2 All electric wiring, hoses, lines, cables, etc., shall be professionally routed and supported to reduce damage and insure ease of replacement.
- 18.2.1 Hydraulic Lines: To be guarded and wrapped with *WAYTEK, INC.* Spiral Wrap Tubing. *WAYTEK, INC.*, 1-800-328-2724.
- 18.3 Winterization: Entire unit shall be winterized to provide satisfactory performance in temperatures between minus 30 to plus 80 degrees Fahrenheit.
- 18.4 Weight scale ticket shall be provided.
- 18.5 **(OPTIONAL ITEM – Refer to Section IV, Bid Price Schedule):** Engine and transmission diagnostics software with associated computer cables is to be provided.

DRAWINGS & SKETCHES

To reduce the computer byte size of this file, drawings and sketches were left out. Copies of these drawings and sketches are available upon request.

DRAWING # 3C

WHELEN DRAWING

DRAWING # 6B

FRAME CUT-OUT & REINFORCEMENT

DRAWING # 7A

DUMP BODY HINGE FRAME

DRAWING # 7B

DUMP BODY HINGE PAD

BID PRICE SCHEDULE

BID SCHEDULE INSTRUCTIONS:

All bids must include both unit pricing and extensions and be otherwise complete in the format requested.

DELIVERY: Indicate, in the space(s) provided, the time required to make delivery after the receipt of an order (ARO). Failure to make an entry in the space(s) provided will be construed as an offer to deliver within "Required Delivery" NUMBER of calendar days ARO. Bids which specify deliveries in excess of "Required Delivery" NUMBER of calendar days ARO will be considered non-responsive and the bid(s) will be rejected.

The materials, equipment or services bid will conform to and meet the requirements of the Contract Bid Documents and are hereby incorporated into this document:

Complete the attached bid price sheets and return with other bid documents as required in Section II – Standard Terms and Conditions, paragraph 39.

BIDDER'S NAME: _____

Bidder agrees to supply Political subdivisions under the terms of this contract:
Yes_____ No_____

Alaska Business License No. _____

Vehicle Dealer License No. _____

BID PRICE SCHEDULE

DELIVERY: Not more than 180 days ARO (After Receipt of Order). Due to location, be it advised that first barge of the 2010 season would be the most advantageous to the bidder.

FOB: Final Destination, AK DOT&PF, McGrath Airport, McGrath, AK
Offered Delivered Time: _____ Days ARO.

SPECIFICATION #217 (6x4):

- | | | |
|-----|--|----------|
| 1. | Truck Cab & Chassis, 6x4 Truck Cab & Chassis (Year/Make/Model) _____ | \$ _____ |
| 2. | Winterfront Reference Specification 1.4.6 | \$ _____ |
| 3. | Starting aid (auto ether or glow plugs or grid heater) Reference Specification 1.7.1 | \$ _____ |
| 4. | Engine Oil Pan Heater Reference Specification 1.7.3 | \$ _____ |
| 5. | Battery Trickle Charger Reference Specification 1.7.4 | \$ _____ |
| 6. | HENDRICKSON RT-463 Rear Suspension, Reference Specification 3.8.1.1 | \$ _____ |
| 7. | 30,000 BTU Auxiliary Heater. Reference Specification 5.15.2 | \$ _____ |
| 8. | Air Conditioning Reference Specification 5.15 | \$ _____ |
| 9. | Proportional Basic Hydraulics, Control Console & Sander Control: to include hydraulic pump, inlet and outlet valve block, and valving for material spreader spinner and conveyor, tank, control console with joystick, suction and pressure lines to the valve bank, valve bank enclosure, and hydraulic reservoir. Reference Specification 11.0.0 and 12.0. | \$ _____ |
| 10. | Dump Body, (8-Yard AR400) with proportional Hydraulics. Reference Specification item 10.0 Make/Model: _____ | \$ _____ |
| 11. | Pre-Wet Switch and Light for Sander/Material Spreader, Reference Specification 12.10.5.4.2 | \$ _____ |
| 12. | Belly Blade – Oscillating Type, Reference Specification 13.0 Make/Model: _____ | \$ _____ |

MISCELLANEOUS

- | | | |
|-----|--|----------|
| 13. | Training, in Anchorage , 16 Hours Reference Specification 16.0 | \$ _____ |
| 14. | Final Inspection Trip (per person). Reference Specification 17.0 | \$ _____ |
| 15. | Publications One (1) each complete set, including all attachments. As per Section I, Special Terms and Conditions, paragraph 7.0 | \$ _____ |
| 16. | Diagnostics Engine and transmission diagnostics software with associated computer cables is to be provided as per Specification Item 18.0 | \$ _____ |

ALL ITEMS GRAND TOTAL \$_____

(Items 1 – 16 TOTAL)

NOTE: The GRAND TOTAL AMOUNT IS FOR BID EVALUATION PURPOSES ONLY.

END OF BID PACKAGE